

ANNALS

OF THE ASTRONOMICAL OBSERVATORY OF HARVARD COLLEGE.

VOL. IV. PART II.

OBSERVATIONS IN RIGHT ASCENSION OF 505 STARS.

PRINTED FROM THE STURGIS FUND.

CAMBRIDGE:

PRESS OF JOHN WILSON AND SON.

1878.

THE ASTROLOGICAL OBSERVATORY OF HENRI LAMONT

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VOL. IV. PART II.

ORBITAL ELEMENTS OF THE PLANETS

BY HENRI LAMONT

NEW YORK: PUBLISHED BY THE
ASTROLOGICAL OBSERVATORY OF HENRI LAMONT
1881

RIGHT ASCENSIONS OF 505 STARS

DETERMINED WITH THE

EAST TRANSIT CIRCLE AT THE OBSERVATORY OF HARVARD COLLEGE.

GEORGE PHILLIPS BOND, A.M., DIRECTOR.

1862-1865.

BY

TRUMAN HENRY SAFFORD, PH.D.,

FIELD MEMORIAL PROFESSOR OF ASTRONOMY IN WILLIAMS COLLEGE.

CAMBRIDGE:

PRESS OF JOHN WILSON AND SON.

1878.

RIGHT ASSOCIATION OF STATES

IN THE CITY OF

LAST TRASSIT FOWEL AT THE ORIENTALITY OF HAVIL AND COLLEGE

GEORGE THOMAS WOOD, LL. D.

1882-1883

JOHN A. HENRY, SECRETARY

THESE ARE YOUR OWN AND NOT

INTRODUCTION.

WITHIN the past few years, it has become evident that, besides the fundamental stars proper (by which term is here understood the Catalogue of 36 principal stars selected by Maskelyne), and the two principal polar stars α and δ Ursæ Minoris, positions of many others of very great precision are needed for the various uses of astronomy.

The selection and observation of these additional half-fundamental or secondary stars have been differently made by different observers. The present series of right-ascensions is intended as a modest contribution to this object. When it was begun, Professor G. P. Bond, under whose direction the larger part of the observations were made, as well as myself, who planned the series in detail, had but little expectation that the observations would prove of very high quality; as the instrument was of an antique construction, and the collimation must be determined by reversals on a distant mark. Moreover, the clock was not so regular in its rate as was desirable.

It was therefore thought best to observe the stars contained in the chief ephemerides, and other bright stars, in order to ascertain by comparison with their right-ascensions, elsewhere determined, what were the individual peculiarities of the instrument.

But as the work progressed, and various discrepancies between the observations and some of the principal ephemerides became manifest, it was almost invariably found that the observations were the more accurate of the two; and a pretty thorough discussion of results from time to time showed clearly enough that considerable improvement might be made by such observations in the right-ascensions of almost any star save the few most frequently and regularly observed elsewhere.

For example, the predicted right-ascension of Polaris itself was corrected by these observations; and substantially the same correction as they give was found to result from other modern series, was at once employed in the European determinations of longitude, and after some hesitation in those of our own Coast Survey. So was it

with other stars whose right-ascensions exhibited considerable discrepancies from the results of previous observation: in such cases, our results were confirmed upon the whole, as will be manifest upon an examination of the details given at the time in Professor Bond's reports. Although the individual results do not agree quite so well as those made by the most modern and powerful instruments, they are by no means unusually discrepant. Their individual accuracy is about the same as that of Argelander's late right-ascensions, and rather greater than that of Struve's; and it is hoped that proportionate care will be seen to have been taken in eliminating constant error.

The one chief weakness of the instrument is its want of collimators; and it is so located that it would be rather difficult to put them up; and it would not be possible to set one upon the other without raising the instrument from its Y^s, as it has no cube, but is constructed in an entirely different manner.

Consequently the greatest care was taken to ascertain its remaining errors, and to trace and measure any large sudden variations in the value of $(n + c)$ as ascertained by polar star observations, of which a very great many were made. *Per contra*, the very pains so taken has resulted in a catalogue of right-ascensions of stars within 10° of the pole, of considerable accuracy (as tested in all possible ways), and of quite unusual completeness; and, as the "working list" seems to have fallen under the notice of the officers of the Coast Survey, portions of it have been incorporated with their Field Catalogue lately published. Moreover, as the clock-rate was rather variable, especial pains were taken to observe the fundamental stars proper with great regularity, and thus determine the clock-correction with entire certainty for any other observations. Of course, under these circumstances these stars are not considered as determined, and no results are set down for their right-ascensions, which are used as taken from Wolfers' "Tabulæ Reductionum," with necessary corrections for Sirius, Castor, and Procyon.

In another point of view, the resulting positions are more entirely independent. The right-ascension of Polaris is determined from about 175 consecutive transits above and below pole; those of the other principal polars, 51 Cephei H. and ϵ , δ , λ Ursæ Minoris, by comparison with Polaris, and as far as possible at double transits; no right-ascension being set down for either of these stars, save on days when Polaris was observed. The right-ascensions of the 22 auxiliary polars, whose places from preceding observations are investigated in the first part of this volume, are also determined by the present observations: the former positions were used for the determination of the instrumental errors only till September, 1864.

Again, care was taken to observe the principal circumpolars to about 35° of polar distance, both above and below pole; thus affording a tolerable check upon the differences of right-ascension of fundamental stars twelve hours apart, and on the general accuracy of the whole work. Of course, this control is not so valuable as in higher latitudes.

The working list includes:—

1. All the stars of the "Nautical Almanac" visible at Cambridge, latitude $42^\circ 23'$. I was never able to see α Gruis, which it would have been quite useless to observe, as its altitude above the horizon is due almost entirely to refraction; and stars of the altitude of α Phoenicis (between 4° and 5°) could be but ill-determined.

2. The additional 22 polars mentioned above. The basis of this list was Argelander's, mentioned in Volume I. of the Bonn Observations, and Carrington's set of standard circumpolars. One object I had in view was the detection, if it existed, of a periodic error of rather complex form in Carrington's right-ascensions, first suspected by Professor Peirce.

3. Many other bright stars, partly from the "Connaissance des Temps," or the American Ephemeris, added from time to time; and such of Argelander's "Gemeinschäftliche Sterne" as were not already in the working list, and could be conveniently observed before I left Cambridge in the spring of 1866.

4. Various stars, selected chiefly from the "Uranometria Nova," as needing observation; some Flamsteed stars, for instance, which are not in Bradley, and are apt to be overlooked on that account; some other stars of the 5th and 6th magnitudes, which are not in the British Association Catalogue at all; and a few stars of suspected or sure proper motion, which other observers had not noticed.

In all this portion, too, of the series, I paid especial regard to the region about the north pole.

This regular list, in which, excluding fundamentals, are over 500 stars, was observed with much persistency from 1862 to 1865 inclusive. The observations, however, were, as to myself, much interrupted by equatorial work, and also by a series of experiments at determining declinations with the meridian circle, at the instance of Colonel Graham, State Superintendent of the United States Lake Survey. The results obtained for him proved useful and sufficiently accurate: they are contained in my catalogue of 2018 stars now in press, to be published by the War Department. But this experiment showed that for declinations a new meridian circle was necessary. Some small stars were observed in right-ascension at odd times: it is, of course, possible that one or the other of them may prove interesting on ac-

count of proper motion, when the great zones now in progress are completed. They were originally observed in pursuance of a design of mine to render more accurate the equatorial zones already published, as well as others then contemplated and actually begun.

The observers were, besides myself:—

During a portion of 1862, Professor A. Hall, U. S. N., then assistant at the Harvard College Observatory. He became Aide at the U. S. Naval Observatory that summer.

During a part of 1864, Mr. W. A. Rogers, assistant professor at the Harvard College Observatory, then teacher of mathematics in Alfred Academy, New York. For the remainder of the series, Mr. A. McConnel was of very great help: during the whole interval, I gave a large portion of my time to the series, and especially to those parts of it upon which the fundamental determinations depend.

The instrument, the East Meridian Circle, is sufficiently described elsewhere in these Annals. (See Vol. I.) At the time of these observations, the clock (Bond 312) was provided with two mercurial pendulums, connected by a fine wire, and beating together; an experimental arrangement, which was afterwards done away with. This peculiarity of the clock probably was in part the cause of its irregularities. As it stood, not in the observing room, but in a room generally heated in winter, the rate should be more uniform during a day than that of a transit clock with a mercurial pendulum usually is: I have, however, not depended to any great extent upon the daily rate, but have divided the fundamental stars into such groups that this dependence is not necessary.

The observations were *all* chronographically registered. Much trouble was found with the close polar stars, especially Polaris; the object-glass defined well; but the position of the observing room, next the warmed room in which is the clock, is quite unfavorable, and the shutters are not so wide as I should make them from my experience. It happens very frequently at Cambridge that the east wind carries the currents of heated air from the dwelling-house across the opening of the East Transit Room.

I am inclined to think that an observatory ought to be chiefly made up of detached buildings, or at least that great care should be taken with respect to the air-currents from the apartments of the observers and computers. This was the arrangement I carried out for the meridian circle room at Chicago. The chronograph employed was Bond's Spring Governor, and satisfactory in all respects. The sheets were read off only to tenths of seconds.

The system of wires was once changed during the series; but from some unknown

cause the intervals seemed to vary from time to time. The change was made about November 10, 1865, or very nearly at the end. I then took occasion to replace wires in the original scores, as graduated by Simms in 1847: these, of course, were at wide intervals, and seven in number. Of these, the middle one only had been used from 1862 to 1865, and four additional ones at equatorial intervals of about 3° ; so that most of the present series was made upon a single close group of 5, and a very small portion near the end upon 11 wires, 5 close and 6 others more distant. The former arrangement is better adapted to large masses of work, the latter is more accurate for single observations. The wire intervals, as used, are given in Table A. The wire A. is that one of the close series of 5 which a star above pole first passes when the lamp is east; M. denotes the mean of these five, to which the few observations made after November 14, 1865, are also reduced.

The steps of reduction are the following, after the chronograph sheets are read off, and the means of wires of complete observations taken: —

1. Reduction of broken transits. These were, fortunately, few in number, save for stars near the north pole of the heavens.

2. Computation of instrumental corrections. The collimation having been determined from time to time by reversal on a distant mark, the value of n is ascertained from the computed right-ascensions of circumpolars. At first the 27 of Part I. were all used, but with very different weights, and afterwards only Polaris, ϵ , δ , λ Ursæ Minoris and 51 Cephei Hevelii. The values of $n + c$ were combined into periods, sometimes of considerable length, where they seemed unchanged. After September 2, 1864, the right-ascensions given in Part I. were corrected by provisional quantities, nearly identical with the final results.

3. Computation of clock-corrections. Such stars only, aside from the 36 Maskelyne's fundamentals, are used as appeared indispensable for a sufficient clock-correction; and no observation thus used furnishes an observed right-ascension; so that the resulting right-ascensions are independently based upon Wolfers' system. Supplementary catalogue places are mostly taken from Part I. of this volume, with the help of the "Berlin Jahrbuch," and "Nautical Almanac" for the reductions to apparent right-ascension.

The two trifling incongruities thus introduced — first, that Wolfers' right-ascensions, and those resulting from my own computations on pages 24 to 30 of Part I., are not quite in accordance, save upon the average, and are systematically a little different; and, second, that the "Nautical Almanac" apparent places do not contain the term $(0^s.0078 + 0^s.0034 \sin \alpha \tan \delta) \sin (\odot - \Gamma)$, — will have the effect of slightly altering the systematic correction to our results, and especially the terms

$$m \sin \alpha + n \cos \alpha.$$

But, as these terms of the systematic correction arise in part from the combination of unnoticed causes producing very small effects, this change will be of no consequence.

In point of fact, I do not know any series of modern observations now extant which is entirely free from suspicion of error of this kind, save, perhaps, the Pulcova observations about 1845: in most cases, the correction is trifling, and the present series (it is to be hoped) will prove nearly free from such errors, to which my attention was called many years ago, and before these observations were begun. (See my paper "On the Positions of the Radcliffe Catalogue.")

In Table B., I give a comparison between the right-ascensions of time-stars in Part I. of this volume, as carried back to 1845, with the Pulcova right-ascensions for that date.

4. Computation of apparent observed right-ascensions.

The instrumental corrections, $n \tan \delta + c \sec \delta$, from -40° to $+70^\circ$ of declination, were tabulated to 3 decimal places for convenient intervals, so that they could be very easily set down for each star to hundredths of seconds. In Table C., I give a specimen of this work.

The clock-corrections for each date were divided into two groups, if the observations were sufficiently numerous, and there was any suspicion of change of rate in the clock. On a good many dates there were observations by two observers: in this case, those of the one were divided into two groups by those of the other. Here the rate used for reducing the observations of the latter was derived from the two groups of the former observer. In other cases, the clock-corrections, including Bessel's m , were obtained by interpolation between consecutive groups, allowing for personal equation only when the groups were more than twelve hours apart; otherwise, comparing the same observer's results only.

The apparent observed right-ascensions were formed by summing up

$$T + \Delta t + m + n \tan \delta + c \sec \delta,$$

where but three separate numerical terms are added, unless the star be beyond 70° of north declination; T , $\Delta t + m$, and $n \tan \delta + c \sec \delta$.

5. Computation of mean right-ascensions for 1865.0.

For stars contained in published ephemerides, the "Berliner Jahrbuch," the "Nautical Almanac," the "Connaissance des Temps," and for 1865 the "American Ephemeris," and Dr. von Asten's calculations in No. 1578 of the "Astronomische Nachrichten," the discrepancies from these ephemerides were at once set down and applied to the mean places for 1865. These positions need a trifling correction, so far as they are

taken from the "Nautical Almanac" and "Connaissance des Temps," on account of the small term of nutation previously mentioned; whose amount with changed sign is set down in Table D. with the arguments, *dies reductus*, and annual precession in right-ascension.

Besides this correction, the error in the "Nautical Almanac's" annual variations was taken into account where necessary. The "Connaissance des Temps" gives its mean right-ascensions only to hundredths. I, therefore, took the means of the three values for 1863, 1864, 1865, and added a correct annual variation.

For stars not in the ephemerides the reductions were effected by the data of Wolfers' "Tabulæ Reductionum;" and for verification (in part), by those of the "American Ephemeris." During 1862, 1863, and 1864, I was obliged in using these latter to allow for the known error in fixing the beginning of the year. Those given for 1865 are correct, the previous practice having been to follow the example set by the English "Nautical Almanac" before 1857.

In employing the formula

$$\alpha' - \alpha = f + g \sin (G + \alpha) \tan \delta + h \sin (H + \alpha) \sec \delta$$

I found it well to compute f , g , G , &c., directly from the logs. A , B , C , D , given in the "Berlin Jahrbuch," and arrange them for immediate reduction to 1865.0. Ten-day ephemerides of the reductions to 1865.0 were computed by their help, for stars observed on closely following dates.

6. For Polaris, as before stated, a special discussion was made, including only the consecutive transits. The clock-correction $\Delta t + m$ having been applied to the clock time of transit, the mean of the two values of $T + \Delta t + m$ given by the two transits at opposite culminations is taken, omitting the hours and minutes, thus giving the seconds of observed right-ascensions, and compared immediately with the "Berlin Jahrbuch." The resulting mean correction was considered to hold good for 1864.0, and brought up to 1865 by the annual variation, as given in the "American Ephemeris Tables," which offer a result very closely equal to that in my paper on the right-ascensions of Polaris. I did not think it wise to apply a correction for personal equation varying with declination; but few observations of Polaris were made otherwise than by Mr. McConnel and myself, and our joint result as given is very nearly equal to the arithmetical mean between our separate determinations.

With regard to the remaining 26 polars of Part I., I intended at first to adopt a different method. I had hoped that the right-ascensions of δ Ursæ Minoris and 51 Cephei H. might be obtained by double transits, or by comparison with double transits of Polaris, or in default of these by single transits of Polaris on the same day. But

these observations were not made often enough in connection, and the instrument seemed to vary during the night's work more than from night to night; so that I could not make sure that the right-ascensions thus obtained represented any thing real. I preferred then to sacrifice the independent determinations of these stars, as well as of λ Ursæ Minoris, and employ the computed right-ascensions of these to determine instrumental error. Fortunately, the change which the introduction of the best values of the right-ascensions of 51 Cephei H. δ , and λ , Ursæ Minoris into my instrumental corrections would have made, is not very considerable; and, with the exception of these three stars, the results of the observations here presented are substantially independent. The three stars' right-ascensions are in parentheses in the catalogue. The right-ascensions of all the polars, as finally given, depend upon the same values of n and c as the remaining stars.

The body of the work comprises the following divisions:—

I. TABLE OF INDIVIDUAL CLOCK-CORRECTIONS, FROM COMPUTED RIGHT-ASCENSIONS, WITH MEANS OF INSTRUMENTAL CORRECTIONS (pp. 1-23).

In case I had foreseen that the original instrumental corrections would not have been modified, I should have given them individually. I will here give a specimen for the longest period, viz. from December 9, 1864, to January 25, 1865, both dates inclusive. The computation was so arranged that $\Delta t + m$ and c being supposed known, n and c would be obtained from each polar star by the formula

$$n + c = [n \tan \delta + c \sec \delta + n (\sec \delta - \tan \delta)] \cos \delta,$$

where $n \tan \delta + c \sec \delta$ is at once given $= a - T - (\Delta t + m)$ and $n (\sec \delta - \tan \delta)$ never exceeds 0.0888 n or about 0°.04 for a star in 80° declination.

Date.	Star.	$n + c$	Date.	Star.	$n + c$
1864 Dec. 9	34 Cephei H.	^{s.} —0.174	1865 Jan. 20	Polaris	^{s.} —0.103
	202 Camelop. B. s.p.	—0.095		57 Ursæ Minoris B. s.p.	—0.068
	39 Cephei H.	—0.215		Gr. 750.	—0.034
	5 Ursæ Minoris B. s.p.	—0.002		24 Gr. 527.	—0.006
	Polaris	—0.070		8 Ursæ Minoris s.p.	—0.058
	14 Polaris	—0.071		25 Polaris	—0.161
	214 Camelop. B. s.p.	—0.061		62 Ursæ Minoris B. s.p.	—0.156
	20 5 Ursæ Minoris B. s.p.	—0.012		8 Ursæ Minoris	—0.161
	43 Cephei H.	—0.005		51 Cephei H.	—0.102
	Polaris	—0.029	Mean for separate days: — 1864 Dec. 9 ^{s.} —0.111 5 14 —0.066 2 20 —0.044 4 30 —0.095 6 1865 Jan. 2 —0.077 2 4 —0.052 3 11 —0.089 3 12 —0.092 4 16 —0.066 2 18 —0.060 2 20 —0.068 3 24 —0.032 2 25 —0.120 4 Adopted Means ^{s.} —0.080 ± 0.0052 Probable error of one star ± 0.034 Probable error of one date ± 0.019 2.6 stars,		
	20 Ursæ Minoris B. s.p.	—0.128			
	30 39 Cephei H.	—0.169			
	5 Ursæ Minoris B. s.p.	+0.011			
	6 Ursæ Minoris B. s.p.	—0.084			
	43 Cephei H.	—0.095			
	Polaris	—0.119			
	20 Ursæ Minoris B. s.p.	—0.112			
	1865 Jan. 2	64 Camelop. B.			
	4 51 Cephei H.	—0.100			
	4 57 Ursæ Minoris B.	—0.012			
	Gr. 750.	—0.064			
	64 Camelop. B.	—0.080			
	11 Polaris	—0.140			
	Gr. 750.	—0.105			
	51 Cephei H.	—0.023			
1865 Jan. 2	12 43 Cephei H.	—0.119			
	Polaris	—0.108			
	214 Camelop. B. s.p.	—0.067			
	323 Cephei B.	—0.074			
	16 Polaris	—0.074			
	4 Ursæ Minoris B.	—0.057			
	18 Polaris	—0.078			
	62 Ursæ Minoris B. s.p.	—0.042			

The observations of Polaris during the period give $n + c = -0^s.088 \pm 0^s.008$; probable error of one observation $\pm 0^s.0235$.

It will be seen, from these numbers, that the variations during an evening were fully comparable with those from night to night; and so it was during the whole series. The individual clock-corrections in this table were obtained by the use of the "Berlin Jahrbuch," wherever stars enough of the original Maskelyne's catalogue were observed.* The nine northern stars were used only in extreme cases.

The "Nautical Almanac" stars, employing the mean right-ascensions of Part I. of this volume, were often used; and no "Nautical Almanac" star, when thus used, was considered as having its right-ascension determined on the same evening.

* The right-ascension of Sirius was corrected by $-0^s.08$; that of Procyon, by $-0^s.01$ in 1863, by $-0^s.02$ in 1864, by $-0^s.04$ in 1865; that of Castor, by $+0^s.08$.

II. MEAN VALUES OF CLOCK-CORRECTIONS (pp. 24–29).

These are so taken that the injurious effects of the variable clock rate may be so far as possible avoided; of course, taking care to use each observer's clock-corrections in reducing his own observations only. The stars whose right-ascensions are determined are usually between two groups of clock-stars of the same date, or else very near one such group.

III. RESULTS. MEAN RIGHT-ASCENSIONS FOR 1865 (pp. 30–108).

These do not include proper motion, save for stars of which ephemerides were at hand and for η Cassiopeiæ. For stars found in the "Nautical Almanac" and other ephemerides, the deviations (Obs.^d — Comp.^d) from those ephemerides are in nearly all cases given; and the resulting right-ascensions obtained by means of the mean right-ascensions for 1865 as given in the Ephemeris.

For the "Connaissance des Temps," this value is not always that given in that work for 1865, but sometimes a mean from the values for 1862, 1863, 1864, and 1865, brought up to 1865 with more correct annual variation. These inequalities are all eliminated by the column $\Delta\alpha$ of the catalogue. For the stars of my Polar Catalogue (in Part I. of this volume) the deviations are from the tables of pages 121 to 143.

IV. GENERAL CATALOGUE (pp. 109–120).

The stars' names are usually the same as in the previous division, and commonly agree with Argelander's "Uranometria Nova," but frequently differ from those in the British Association Catalogue. The precessions and secular variations are computed from Bessel's elements, using Argelander's precepts and tables in the seventh volume of the Bonn Observations. I have utilized, as far as they go, the values for 1875 of those quantities given in the "Vierteljahrsschrift der astronomischen Gesellschaft," Volume IV., pages 324 to 349 inclusive, save for stars within 10° of the pole, for which I have (with much trouble) computed declinations for 1865, exact at least to seconds, and when needful more closely. In cases where the third term, according to Tiele, is inserted in the "Vierteljahrsschrift," I have used six one-hundredths of it as the secular variation of the secular variation.

From this it will be seen, by referring to the seventh volume of the Bonn Observations, pages 147, 148, that these secular variations are geometrical only, and do not contain the additional terms

$$0.01944 (h' \operatorname{tg} \delta' \cos \alpha' + i' \sec \delta'^2 \sin \alpha') \text{ and } -0.01944 h' \sin \alpha',$$

depending upon proper motion and mentioned on page 4 of Part I.

The secular variations on pages 31, 32 of that Part, contain one-half of the first of these terms, and hold good for $1805 = \frac{1}{2} (1755 + 1855)$ and for Struve's elements: hence they are slightly different from the values here given.

The proper motions are derived from the following authorities, reduced in all cases to Bessel's precession:—

A. Argelander, Volume VII. of the Bonn Observations, or the Vierteljahrs-schrift.

N. Newcomb, American Ephemeris for 1880, Table VIII.

M. Mädler, Dorpat Observations, Volume XIV.

Ast. Von Asten, Vierteljahrsschrift, Volume IV. as before cited.

Wg. Wagner, Observations de Poulcova, Volume III.

W. Wolfers, Tabulæ Reductionum.

R. Rogers, Volume X. of these Annals.

S. My own investigations; provisional only.

When proper motion is not given, it is usually very small: a few cases need farther study, but the epoch can always be readily obtained.

The declinations are mostly reliable to $0'.1$: sometimes not, especially for southern stars, as I had no good modern catalogue at hand. For high northern stars, more accurate values were used in computing precessions, &c.

The column Δa contains the corrections applied, due to proper motion; or for stars contained in ephemerides, to differences of proper motion and to periodic terms neglected (see page ix.). Where this column is vacant, neither correction was necessary.

V. TABLES FOR THE STARS OF THE POLAR CATALOGUE (pp. 121–143).

These are in the usual form as given by Bessel and others after him, save for the terms depending on 2ϵ : for these, the argument *in days* is obtained by subtracting from the *dies reductus* as corrected for the star the date just preceding it in the table. In these tables, I have omitted the terms depending upon $\odot + \Omega$: the former, which alone is sensible, varies between $+ 0^s.14$ and $- 0^s.14$ for λ Ursæ Minoris, and between $+ 0^s.02$ and $- 0^s.02$ for δ Cephei H.; both according to the Star Tables of the "American Ephemeris."

This term is substantially eliminated in the mean of observations above and below pole, and is of very slight consequence in all cases.

TABLE A.

WIRE INTERVALS, ILLUMINATION EAST.

Period.	Dates included.	A to M.	B to M.	C to M.	D to M.	E to M.
I	1862 March 11 — May 23.	+6.700 ^{s.}	+3.524 ^{s.}	-0.303 ^{s.}	-3.248 ^{s.}	-6.673 ^{s.}
II	1862 May 27 — 1863 March 12.	6.739	3.393	0.295	3.101	6.736
III	1863 March 23 — July 11.	6.753	3.428	0.336	3.108	6.736
IV	1863 July 20 — Oct. 1.	6.659	3.317	0.255	2.925	6.794
V	1863 Oct. 22 — 1864 Feb. 19.	6.681	3.326	0.238	2.989	6.783
VI	1864 Feb. 23 — 1864 June 17.	6.651	3.356	0.241	2.935	6.836
VII	1864 June 21 — 1864 Sept. 30.	6.683	3.402	0.340	2.913	6.831
VIII	1864 Oct. 5 — 1864 Nov. 16.	6.663	3.381	0.301	2.941	6.803
IX	1864 Nov. 25 — 1865 April 26.	6.663	3.354	0.265	2.913	6.839
X	1865 May 3 — June 13.	6.667	3.384	0.313	2.899	6.839
XI	1865 June 19 — Nov. 11.	6.619	3.385	-0.316	2.869	6.819
XII	1865 Nov. 14 — 1866 Jan. 4.	+6.858	+3.360	+0.078	-3.500	-6.797

TABLE B.

COMPARISON OF TIME STARS IN PART I. WITH THE PULCOVA CATALOGUE FOR 1845.

Star's Name.	Wolfers minus Pulcova.	Safford minus Pulcova.	Star's Name.	Wolfers minus Pulcova.	Safford minus Pulcova.
α Andromedæ	^{s.} +0.011		α Virginis	^{s.} +0.013	
γ Pegasi	+0.055		ζ Virginis		^{s.} +0.026
ε Piscium		^{s.} -0.013	η Bootis		+0.034
θ Ceti		-0.018	τ Virginis		+0.027
η Piscium		-0.001	α Bootis	+0.017	
β Arietis		+0.040	ρ Bootis		+0.050
α Arietis		+0.019	ε Bootis		+0.049
ξ^2 Ceti		+0.026	α^1 Libræ	+0.003	
γ Ceti		+0.019	α^2 Libræ	+0.051	
α Ceti	+0.018		β Libræ		+0.037
η Tauri		+0.018	α Coronæ	+0.046	
γ Eridani		+0.046	α Serpentis	+0.041	
ε Tauri		+0.040	β Scorpïi		+0.045
α Tauri	+0.064		δ Ophiuchi		+0.037
ι Aurigæ		+0.073	α Scorpïi	+0.030	
α Aurigæ	+0.053		ζ Herculis		+0.012
β Orionis	+0.041		κ Ophiuchi		+0.081
β Tauri	+0.040		α Herculis	+0.065	
δ Orionis		+0.060	α Ophiuchi	+0.050	
ε Orionis		+0.041	μ Herculis		+0.057
α Orionis	+0.077		α Lyræ	+0.006	
μ Geminorum		+0.050	β Lyræ		+0.024
γ Geminorum	+0.016		ζ Aquilæ		+0.029
δ Geminorum		+0.034	δ Aquilæ		+0.013
α Geminorum	[-0.035]		γ Aquilæ	+0.026	
β Geminorum	+0.042		α Aquilæ	+0.029	
ι Navis		+0.056	β Aquilæ	+0.043	
ε Hydræ		+0.052	α^1 Capricorni	+0.042	
α Hydræ	+0.041		α^2 Capricorni	+0.028	
ε Leonis		+0.029	α Cygni	+0.011	
α Leonis	+0.042		ζ Cygni		+0.038
γ Leonis		+0.097	β Aquarii		-0.013
ρ Leonis		+0.059	ε Pegasi		+0.007
δ Leonis		+0.040	α Aquarii	+0.042	
δ Crateris		+0.022	η Aquarii		+0.004
β Leonis	+0.029		ζ Pegasi		+0.002
β Virginis	+0.038		α Pegasi	+0.045	
η Virginis		+0.047	γ Piscium		+0.052
γ Virginis		+0.046	ι Piscium		+0.031
12 Canum Ven.		+0.026	ω Piscium		+0.020

TABLE C.

SPECIMEN OF INSTRUMENTAL CORRECTIONS, 1864 DECEMBER 9 TO 1865 JANUARY 25.

$n = +0.229$ δ	$c = -0.339$ $n \tan \delta + c \sec \delta$
-40°	-0.596 107
-30°	-0.489 77
-20°	-0.412 58
-10°	-0.354 45
0°	-0.309 35
$+10^\circ$	-0.274 29
$+20^\circ$	-0.245 20
$+30^\circ$	-0.225 13
$+40^\circ$	-0.212 4
$+45^\circ$	-0.208 0
$+50^\circ$	-0.208 4
$+55^\circ$	-0.212 9
$+60^\circ$	-0.221 6
$+62^\circ$	-0.227 8
$+64^\circ$	-0.235 10
$+66^\circ$	-0.245 13
$+68^\circ$	-0.258 16
$+70^\circ$	-0.274

TABLE D.

CORRECTION FOR NEGLECTED TERMS OF NUTATION.

ARGUMENTS: ANNUAL PRECESSION AT TOP, REDUCED MEAN DATE AT SIDE.

	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'
Jan. 0	^{s.} .000	^{s.} .000	^{s.} —0.001	^{s.} —0.001	^{s.} —0.001	^{s.} —0.001	^{s.} —0.001	^{s.} —0.002	^{s.} —0.002	^{s.} —0.002
30	—0.002	—0.003	—0.005	—0.006	—0.008	—0.010	—0.011	—0.013	—0.014	—0.016
Mar. 1	—0.003	—0.005	—0.008	—0.010	—0.013	—0.016	—0.018	—0.021	—0.023	—0.026
31	—0.003	—0.006	—0.009	—0.012	—0.014	—0.017	—0.020	—0.023	—0.026	—0.029
April 30	—0.002	—0.001	—0.007	—0.010	—0.012	—0.015	—0.017	—0.020	—0.022	—0.025
May 30	—0.001	—0.003	—0.004	—0.006	—0.007	—0.008	—0.010	—0.011	—0.013	—0.014
June 29	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
July 29	+0.001	+0.003	+0.004	+0.006	+0.007	+0.008	+0.010	+0.011	+0.013	+0.014
Aug. 28	+0.002	+0.005	+0.007	+0.010	+0.012	+0.015	+0.017	+0.020	+0.022	+0.025
Sept. 27	+0.003	+0.006	+0.009	+0.012	+0.015	+0.017	+0.020	+0.023	+0.026	+0.029
Oct. 27	+0.003	+0.005	+0.008	+0.010	+0.013	+0.016	+0.018	+0.021	+0.023	+0.026
Nov. 26	+0.002	+0.003	+0.005	+0.006	+0.008	+0.010	+0.011	+0.013	+0.014	+0.016
Dec. 26	.000	.000	.000	+0.001	+0.001	+0.001	+0.001	+0.001	+0.001	+0.001

These corrections are to be added to mean right-ascensions obtained by the use of the "Nautical Almanac," or subtracted from the apparent right-ascensions of that work.

TABLE II

TABLE II

1	2	3	4	5	6	7	8	9	10
100	100	100	100	100	100	100	100	100	100
90	90	90	90	90	90	90	90	90	90
80	80	80	80	80	80	80	80	80	80
70	70	70	70	70	70	70	70	70	70
60	60	60	60	60	60	60	60	60	60
50	50	50	50	50	50	50	50	50	50
40	40	40	40	40	40	40	40	40	40
30	30	30	30	30	30	30	30	30	30
20	20	20	20	20	20	20	20	20	20
10	10	10	10	10	10	10	10	10	10
0	0	0	0	0	0	0	0	0	0

These figures are to be added to those of the preceding table to give the total figures of the work.

TABLE OF INDIVIDUAL CLOCK CORRECTIONS

FROM COMPUTED RIGHT ASCENSIONS,

WITH MEANS OF INSTRUMENTAL CORRECTIONS.

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1862.		<i>s.</i>	1862.		<i>s.</i>	1862.		<i>s.</i>
March 11	α Canis Maj. .	5.06	April 4	α Tauri . .	4.96	April 24	β Leonis . .	14.46
H.	α Geminorum	5.19	H.	α Hydræ . .	4.64	S.	β Virginis . .	14.44
	β Geminorum	4.95		α Leonis . .	4.53			
March 24	β Orionis . .	32.57		χ Leonis . .	4.35*	April 24	12 Canum . .	14.39*
S.	β Tauri . .	32.50		δ Leonis . .	4.54*	H.	α Virginis . .	14.32
	α Geminorum	32.22	April 7	η Cancri . .	56.17*		ζ Virginis . .	14.31*
	α Canis Min. .	32.28	S.	ϵ Hydræ . .	56.20*	April 25	α Hydræ . .	12.76
	β Geminorum	32.16		α Hydræ . .	56.07	S.	α Leonis . .	12.61
March 26	β Tauri . .	27.34		β Leonis . .	55.88		α Virginis . .	12.39
S.	α Orionis . .	27.35		β Virginis . .	55.84	April 26	ι Leonis . .	10.09*
	α Canis Maj. .	27.20		γ Virginis . .	55.89*	H.	χ Leonis . .	10.08*
	β Leonis . .	26.70	April 12	α Leonis . .	43.77		β Virginis . .	9.97
	β Virginis . .	26.62	H.	ρ Leonis . .	43.74*		α Virginis . .	9.83
	α Virginis . .	26.55		δ Crateris . .	43.73*	April 29	η Virginis . .	2.75*
March 27	η Cancri . .	24.45*		β Leonis . .	43.58	S.	γ Virginis . .	2.76*
H.	α Hydræ . .	24.41	April 16	α Leonis . .	35.11		α Virginis . .	2.76
	ϵ Leonis . .	24.40*	H.	β Leonis . .	34.97			
	ρ Leonis . .	24.22*		β Virginis . .	34.90	April 30	ι Leonis . .	0.78*
March 28	α Tauri . .	22.17		α Virginis . .	34.80	H.	β Leonis . .	0.81
S.	β Orionis . .	22.11	April 18	α Leonis . .	30.60		β Virginis . .	0.73
	β Tauri . .	22.04	H.	ρ Leonis . .	30.61*		α Virginis . .	0.66
	α Orionis . .	22.09		ι Leonis . .	30.46*	May 7	ι Leonis . .	44.39*
	α Canis Min. .	21.95		χ Leonis . .	30.43*	S.	β Leonis . .	44.23
	β Geminorum	21.97	April 19	α Hydræ . .	28.47		β Virginis . .	44.12
	α Hydræ . .	21.74	S.	ϵ Leonis . .	28.45*		τ Virginis . .	43.98*
March 29	α Hydræ . .	19.31		ι Leonis . .	28.23*	May 14	α Geminorum	28.91
H.	α Leonis . .	19.25		δ Leonis . .	28.26*	H.	α Canis Min. .	28.84
	β Leonis . .	19.06	April 23				β Geminorum	28.87
	β Virginis . .	19.00	S.	β Virginis . .	17.34		α Virginis . .	28.18
March 11	$n = + 0.341$	<i>s.</i>	April 19 to 9.50	$n = + 0.258$	<i>s.</i>	April 19 to 9.50	$c = + 0.029$	<i>s.</i>
24-27	$+ 0.293$		19 after 9.50	$+ 0.258$		19 after 9.50	$+ 0.072$	
28	$+ 0.278$		24	$+ 0.098$		24	$+ 0.144$	
29-April 4	$+ 0.344$		25	$+ 0.216$		25	$+ 0.144$	
April 7	$+ 0.195$		26 to 30	$+ 0.193$		26 to 30	$- 0.047$	
12	$+ 0.289$		May 7	$+ 0.234$		May 7	$- 0.047$	
16-18	$+ 0.168$		14, 15	$+ 0.259$		14, 15	$+ 0.032$	

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1862. May 14 H.	α Bootis . . α^1 Libræ . . α^2 Libræ . . α Coronæ . . α Serpentis . .	^{s.} 28.04 27.97 27.98 27.94 27.90	1862. July 3 H.	α Coronæ . . α Serpentis . . α Scorpii . .	^{s.} 21.56 21.57 21.54	1862. Aug. 21	α Virginis . . α Bootis . . α Herculis . . γ Aquilæ . . β Aquilæ . . α^1 Capricorni . . α^2 Capricorni . .	^{s.} 13.27 13.23 13.00 12.68 12.69 12.58 12.61
May 15 S.	β Leonis . . β Virginis . .	25.84 25.82	July 18 S.	α Virginis . . α Coronæ . . α Serpentis . . α Scorpii . . γ Aquilæ . . α Aquilæ . . β Aquilæ . . α^2 Capricorni . .	45.21 44.99 44.92 44.92 44.49 44.50 44.40 44.48	Aug. 29	α Bootis . . β Lyræ . .	53.65 53.10*
May 17 S.	α Virginis . . α^1 Libræ . . α^2 Libræ . .	21.46 21.21 21.17	July 22 S.	α Coronæ . . α Serpentis . . α Scorpii . . α Herculis . . α Ophiuchi . .	34.57 34.44 34.45 34.33 34.32	Sept. 2	α Ophiuchi . . γ Aquilæ . . α^1 Capricorni . . α^2 Capricorni . .	44.28 44.03 43.91 43.87
May 23 S.	α Leonis . . α Virginis . . α Bootis . . α^1 Libræ . . α^2 Libræ . . α Coronæ . . α Serpentis . . α Scorpii . .	7.27 6.96 7.03 6.79 6.74 6.81 6.63 6.66	July 26 S.	α Ophiuchi . . γ Aquilæ . . α Aquilæ . . β Aquilæ . .	23.38 23.27 23.20 23.22	Sept. 4	α Herculis . . γ Aquilæ . . β Aquilæ . . α Aquarii . . α Piscis Aus. . . α Pegasi . .	39.38 39.14 39.13 38.91 38.74 38.85
May 28 H.	η Bootis . . α Bootis . . ρ Bootis . .	54.94* 54.91 54.87*	July 28 S.	α Bootis . .	18.98	Sept. 8	α Ophiuchi . . α Herculis . . μ Sagittarii . . ρ Capricorni . . 61 Cygni . .	30.62* 30.61 30.46* 30.19* 30.09*
June 5 H.	η Bootis . . τ Virginis . .	34.51* 34.48*	Aug. 1	β Scorpii . . ζ Herculis . . α Ophiuchi . .	5.86* 5.92* 5.91*	Sept. 9	α Herculis . . θ Ophiuchi . .	27.95 27.96*
June 11 H.	α Bootis . . α^1 Libræ . . α^2 Libræ . . α Serpentis . .	18.86 18.82 18.83 18.66	Aug. 6	α Bootis . . α Herculis . . α Ophiuchi . . ω Aquilæ . . δ Aquilæ . .	52.12 51.83 51.82 51.46* 51.32*	Sept. 10	α Bootis . . α Herculis . . α Ophiuchi . . α^1 Capricorni . . α^2 Capricorni . . α Aquarii . . α Piscis Aus. . .	25.75 25.57 25.50 25.22 25.23 24.85 24.77
June 16 S.	α Virginis . . α Bootis . . α Coronæ . . α Serpentis . . α Scorpii . .	5.77 5.66 5.60 5.46 5.37	Aug. 11	α Herculis . . α Ophiuchi . . γ Aquilæ . . β Aquilæ . .	37.38 37.34 37.12 37.06	Sept. 11	α Herculis . . α Ophiuchi . . γ Aquilæ . . β Aquilæ . . α^1 Capricorni . . α^2 Capricorni . .	23.16 23.09 22.86 22.88 22.75 22.70
June 17 H.	α Virginis . . α Bootis . . α^1 Libræ . . α^2 Libræ . . α Coronæ . . α Serpentis . .	3.50 3.45 3.38 3.38 3.38 3.28	Aug. 16	α Ophiuchi . .	24.60			
			Aug. 20	α Bootis . . γ Aquilæ . . β Aquilæ . .	15.69 15.13 15.15			
May 17, 24	$n = + 0.159$	$c = - 0.080$	Aug. 20	$n = + 0.163$	$c = - 0.150$			
23-June 17	$+ 0.186$	$+ 0.184$	21 to 17.28	$+ 0.174$	$- 0.150$			
July 18-22	$+ 0.278$	$+ 0.140$	21 (17.28) -Sept. 4	$+ 0.237$	$+ 0.108$			
26	$+ 0.255$	$- 0.140$	Sept. 8-9	$+ 0.215$	$- 0.125$			
Aug. 6	$+ 0.167$	$- 0.150$	10-27 (Polaris sp.)	$+ 0.285$	$- 0.125$			
11	$+ 0.129$	$- 0.150$						

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1862.		^{s.}	1862.		^{s.}	1862.		^{s.}
Sept. 15	α Herculis .	13.91	Oct. 5	α Orionis . .	24.44	Nov. 3	α Aquarii . .	12.92
	α Ophiuchi .	13.89		α Canis Maj. .	23.97		α Andromedæ	12.93
				α Geminorum	24.13		γ Pegasi . .	12.95
Sept. 16	α Scorpii . .	11.74		α Canis Min. .	24.08	Nov. 4	32 Vulpeculæ	10.62*
	α Herculis . .	11.71		β Geminorum	24.11		ζ Cygni . .	10.60*
	α Ophiuchi . .	11.77		α Leonis . .	23.79		α Aquarii . .	10.47
	γ Aquilæ . .	11.47		γ Leonis . .	23.93*		α Piscis Aus. .	10.33
Sept. 17	α Herculis . .	9.68		δ Leonis . .	23.74*		α Pegasi . .	10.41
	α Ophiuchi . .	9.58	Oct. 6	θ Ophiuchi . .	23.24	Nov. 10	γ Pegasi . .	53.02
	α Orionis . .	8.44		α Ophiuchi . .	23.19		12 Ceti . .	52.85*
	α Canis Maj. .	8.29	Oct. 7	α Ophiuchi . .	21.33		β Ceti . .	52.83*
Sept. 18	α Herculis . .	7.46		α^1 Capricorni	21.22		α Bootis . .	51.42
	μ Herculis . .	7.46*		α^2 Capricorni	21.13	Nov. 13	α Aquilæ . .	45.85
Sept. 21	α Canis Maj. .	56.89		α Cygni . .	21.15		β Aquilæ . .	45.84
	α Leonis . .	55.94		α Aquarii . .	21.09		α^1 Capricorni	45.76
Sept. 22	ζ Herculis . .	55.09*		α Canis Maj. .	20.21		α^2 Capricorni	45.80
Sept. 23	α Herculis . .	52.70		α Geminorum	20.20	Dec. 6	ε Pegasi . .	38.86*
	α Ophiuchi . .	52.62		α Canis Min. .	20.03		16 Pegasi . .	38.85*
	α Aquarii . .	52.10	Oct. 8	β Geminorum	20.19	Dec. 8	β Ceti . .	32.97*
	α Piscis Aus. .	52.15		α Lyræ . .	19.32		ε Piscium . .	32.87*
	α Pegasi . .	52.08		α^1 Capricorni	19.22		β Arietis . .	32.87
	α Andromedæ	52.03		α^2 Capricorni	19.23		α Arietis . .	32.77
	γ Pegasi . .	51.94		α Cygni . .	19.07	Dec. 10	ε Piscium . .	27.35*
Sept. 25	α Herculis . .	48.32	Oct. 9	α Lyræ . .	17.41		θ Ceti . .	27.34*
	α Ophiuchi . .	48.12	Oct. 14	β Leonis . .	3.20		α Arietis . .	27.38
	α Lyræ . .	48.11	Oct. 16	α Herculis . .	59.55		α Ceti . .	27.22
	α Cygni . .	47.99		α Ophiuchi . .	59.59		ε Corvi . .	26.06*
	32 Vulpeculæ	47.86*	Oct. 18	α Ophiuchi . .	54.40		α Virginis . .	25.98
Sept. 27	μ Sagittarii .	43.16*		α Lyræ . .	54.37		ε Bootis . .	25.87*
Sept. 29	α Ophiuchi . .	39.00		α Aquilæ . .	54.13	Dec. 11	α Aquarii . .	25.27
	α^1 Capricorni	38.76		β Aquilæ . .	54.13		α Piscis Aus. .	25.10
	α^2 Capricorni	38.82	Oct. 30	α Piscis Aus. .	22.01		α Pegasi . .	25.13
	α Cygni . .	38.81		α Pegasi . .	22.17		ε Tauri . .	24.52*
	α Andromedæ	38.52	Nov. 1	α Aquilæ . .	17.47		α Tauri . .	24.59*
	γ Pegasi . .	38.55	Nov. 3	γ Aquilæ . .	13.20	Dec. 12	α Piscis Aus. .	22.97
Oct. 5	α Tauri . .	24.53		α Aquilæ . .	13.34		α Pegasi . .	23.04
	α Aurigæ . .	24.59		β Aquilæ . .	13.24	Dec. 16	β Ceti . .	11.85*
	β Orionis . .	24.53					ε Piscium . .	11.86*
Sept. 27 (18.04) -29	$n = +0.259$	$c = +0.110$	Nov. 3			$n = +0.233$	$c = +0.045$	
Oct. 5, 6	$+0.326$	$+0.110$	4			$+0.371$	$+0.045$	
7, 8 (to 20.30)	$+0.203$	$+0.110$	10			$+0.336$	$+0.045$	
8 (20.30), 9	$+0.113$	-0.075	Dec. 8			$+0.287$	$+0.045$	
18	$+0.316$	-0.075	12-16			$+0.267$	$+0.012$	
30	$+0.293$	-0.075						

TABLE OF INDIVIDUAL CLOCK CORRECTIONS.

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1862.			1863.			1863.		
Dec. 16	β Arietis . .	11.90*	Feb. 2	α Ceti . . .	13.15	March 5	γ Geminorum	5.17*
	α Arietis . .	11.84		β Orionis . .	13.02		ε Canis Maj. .	5.08*
	ξ^2 Ceti . . .	11.80*		α Orionis . .	12.90		γ Canis Maj. .	4.89*
				α Canis Maj. .	12.77		η Cancri . . .	4.80*
Dec. 20	α Pegasi . .	1.23	Feb. 7	α Ceti . . .	59.71	March 6	ρ Leonis . . .	1.46*
	α Ceti . . .	0.89		β Geminorum	59.59		l Leonis . . .	1.40*
	δ Arietis . .	1.14*		ε Hydræ . .	59.40*		β Leonis . . .	1.41
	α Persei . .	1.15*		83 Cancri . .	59.34*		β Virginis . .	1.37
Dec. 24	η Piscium . .	50.50*	Feb. 10	α Arietis . .	54.22	March 9	α Aurigæ . .	52.67
Dec. 27	β Arietis . .	42.67*	Feb. 14	η Tauri . . .	45.45*		β Orionis . .	52.68
	α Arietis . .	42.62		γ Eridani . .	45.52*		α Geminorum	52.34
Dec. 28	α Andromedæ	39.97		ϕ^1 Eridani . .	45.57*		α Canis Min. .	52.27
	γ Pegasi . .	40.01	Feb. 16	β Arietis . .	41.50*		β Geminorum	52.30
	β Leonis . .	38.48		γ Ceti . . .	41.31*		l Leonis . . .	51.80*
	β Virginis . .	38.42		α Ceti . . .	41.31		χ Leonis . . .	51.90*
	α Virginis . .	38.34		α Canis Min. .	41.00	March 11	α Canis Maj. .	46.89
Dec. 29	α Pegasi . .	37.69	Feb. 17	γ Eridani . .	39.21*		α Geminorum	46.84
	γ Pegasi . .	37.48	Feb. 18	α Arietis . .	37.45		α Canis Min. .	46.78
							β Geminorum	46.65
							α Hydræ . . .	46.67
1863.			Feb. 20	α Orionis . .	33.79	March 23	χ Geminorum	4.32*
Jan. 3	α Andromedæ	25.76		ν Orionis . .	33.74*	March 27	α Hydræ . . .	51.96
	γ Pegasi . .	25.85		δ Geminorum	33.62*	March 30	ε Hydræ . . .	42.62*
Jan. 5	β Ceti . . .	20.62*		α Coronæ . .	32.88		α Hydræ . . .	42.58
	η Tauri . . .	20.36*		α Serpentis .	32.90	April 1	ε Hydræ . . .	36.31*
	α Tauri . . .	20.34	Feb. 21	α Geminorum	31.75		83 Cancri . .	36.12*
Jan. 16	α Lyræ . . .	52.04		β Geminorum	31.90		α Hydræ . . .	36.19
Jan. 17	α Pegasi . .	51.55	Feb. 23	β Arietis . .	27.59*	April 6	β Geminorum	19.76
	α Andromedæ	51.45		α Ceti . . .	27.63	April 9	α Canis Maj. .	11.73
	γ Pegasi . .	51.39		α Orionis . .	27.50		α Hydræ . . .	11.54
Jan. 19	ε Piscium . .	46.00*		γ Canis Maj. .	27.29*		α Leonis . . .	11.44
	α Tauri . . .	45.70	Feb. 25	α Hydræ . .	23.38		β Leonis . . .	11.23
	α Aurigæ . .	45.69		ε Leonis . .	23.45		β Virginis . .	11.15
Jan. 30	α Arietis . .	20.42	March 2	α Aurigæ . .	14.08		α Virginis . .	11.06
Jan. 31	α Aurigæ . .	17.82		β Orionis . .	14.06	April 18	α Leonis . . .	45.02
	β Orionis . .	17.58		α Geminorum	14.10		γ Leonis . . .	44.92*
				β Geminorum	13.97			
				α Hydræ . .	13.83			
Dec. 20	$n = + 0.169$	$c = + 0.012$	Feb. 10-16	$n = + 0.262$	$c = - 0.042$			
24	$+ 0.370$	$+ 0.012$	17	$+ 0.295$	$- 0.042$			
27	$+ 0.254$	$+ 0.012$	18-21	$+ 0.201$	$- 0.042$			
28-29	$+ 0.233$	$+ 0.012$	23-March 6 (11.15)	$+ 0.261$	$- 0.042$			
1863.			March 6 (11.15)-11	$+ 0.292$	$+ 0.092$			
Jan. 3-Feb. 2	$+ 0.259$	$- 0.042$	23-April 9	$+ 0.192$	$+ 0.092$			
Feb. 7	$+ 0.304$	$- 0.042$	April 18-May 15	$+ 0.003$	$+ 0.092$			

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1863.			1863.			1863.		
April 21	α Canis Maj. .	35.55 ^{s.}	June 17	α Ophiuchi .	50.31 ^{s.}	Aug. 6	α Andromedæ	33.66 ^{s.}
	α Hydræ . .	35.29					γ Pegasi . .	33.85
April 22	α Hydræ . .	32.36	June 23	32 Vulpeculæ	32.56*	Aug. 10	α Ophiuchi .	52.37
	θ Virginis . .	31.87		ε Pegasi . .	32.54*		γ Pegasi . .	51.58
April 23	α Hydræ . .	29.51	June 27	ψ Bootis . .	22.07*	Aug. 12	α Ophiuchi .	47.19
				α Coronæ . .	22.05		β Aquilæ . .	46.97
April 27	α Canis Maj. .	17.18	June 29	16 Pegasi . .	16.24*		α^1 Capricorni	46.96
May 1	α Virginis . .	4.83	June 30	α Pegasi . .	13.82		α^2 Capricorni	46.89
May 2	γ Leonis . .	2.79*	July 11	α Scorpii . .	44.29	Aug. 14	γ Aquilæ . .	40.73
				α Herculis . .	44.29		β Aquilæ . .	40.78
May 9	χ Leonis . .	41.12*		α Ophiuchi . .	44.23		α^1 Capricorni	40.71
	α Virginis . .	40.65					α^2 Capricorni	40.71
May 15	ψ Bootis . .	21.63*	July 20	α Serpentis .	18.24		ζ Cygni . .	40.62*
				δ Ophiuchi . .	18.13*	Aug. 15	μ Herculis . .	38.33*
May 18	α Serpentis .	12.35	July 21	α Andromedæ	13.96		β Lyræ . .	38.15*
				γ Pegasi . .	13.97	Aug. 17	γ Aquilæ . .	31.80
May 19	χ Leonis . .	10.12*	July 22	β Libræ . .	12.12*		β Aquilæ . .	31.81
	δ Leonis . .	10.29*		α Scorpii . .	11.97		α^2 Capricorni	31.71
	α Bootis . .	9.77		α Andromedæ	10.99	Aug. 18	β Aquilæ . .	28.83
May 23	β Virginis . .	1.06		γ Pegasi . .	10.92		α^1 Capricorni	28.79
	α Bootis . .	0.72	July 23	β Lyræ . .	8.61*		α^2 Capricorni	28.81
May 25	α Virginis . .	54.71		δ Aquilæ . .	8.59*		α Cygni . .	28.87
	α Coronæ . .	54.60	July 24	α Lyræ . .	5.84		32 Vulpeculæ	28.87*
	α Serpentis .	54.35	July 29	α Lyræ . .	53.99	Aug. 19	γ Aquilæ . .	26.27
May 27	B A C 6651**	47.71		16 Pegasi . .	53.54*		β Aquilæ . .	26.25
June 1	ε Virginis **	36.37		α Aquarii . .	53.49		α^2 Capricorni	26.21
June 2	α Bootis . .	33.76	July 31	α Ophiuchi .	48.91	Aug. 22	α Ophiuchi .	18.37
	α Coronæ . .	33.73		α Aquilæ . .	48.61		ω Aquilæ . .	18.04*
June 3	α^2 Libræ . .	30.96		β Aquilæ . .	48.70	Aug. 24	α Bootis . .	13.56
June 4	β Libræ . .	27.85*	Aug. 3	α Herculis .	41.79		α Herculis .	13.31
June 5	32 Vulpeculæ.	24.27*		α Ophiuchi .	41.74		α Ophiuchi .	13.22
	ζ Cygni . .	24.20*		α^1 Capricorni	41.59	Aug. 30	α Andromedæ	53.75
June 11	ζ Virginis . .	10.00*		α^2 Capricorni	41.63		γ Pegasi . .	53.82
			Aug. 4	α^1 Capricorni	39.20	Aug. 31	θ Cygni . .	51.22**
				α^2 Capricorni	39.29			
May 18-June 4	$n = +0.079$	$c = -0.122$	July 21-24	$n = -0.076$	$c = +0.399$			
June 5	$+0.047$	$+0.167$	28-Aug. 3	-0.014	$+0.399$			
6-17	-0.001	$+0.399$	Aug. 4-12	$+0.031$	-0.432			
23-July 11	-0.026	$+0.399$	14-Sept. 4	-0.018	$+0.412$			
July 20	$+0.104$	$+0.399$						

TABLE OF INDIVIDUAL CLOCK CORRECTIONS.

Date.	Name of Star.	Value of <i>At+m</i>	Date.	Name of Star.	Value of <i>At+m</i>	Date.	Name of Star.	Value of <i>At+m</i>
1863.		<i>s.</i>	1863.		<i>s.</i>	1863.		<i>s.</i>
Sept. 2	<i>α</i> Ophiuchi . .	44.75	Sept. 24	<i>α</i> Piscis Aus. .	29.36	Nov. 3	<i>α</i> Aquarii . .	7.22
	<i>α</i> Cygni . .	44.32		<i>α</i> Andromedæ .	29.35		<i>α</i> Andromedæ .	7.01
Sept. 4	<i>ζ</i> Cygni . .	37.27*		<i>γ</i> Pegasi . .	29.28		<i>γ</i> Pegasi . .	7.07
	<i>α</i> Aquarii . .	37.29	Sept. 28	<i>α</i> ¹ Capricorni .	15.72		<i>β</i> Arietis . .	6.80*
Sept. 5	<i>β</i> Lyræ . .	34.47*		<i>α</i> ² Capricorni .	15.63		<i>α</i> Arietis . .	6.89
	<i>γ</i> Aquilæ . .	34.38		<i>α</i> Cygni . .	15.60	Nov. 4	<i>α</i> ¹ Capricorni .	4.09
Sept. 7	<i>α</i> Cygni . .	27.90		<i>α</i> Piscis Aus. .	15.24		<i>α</i> ² Capricorni .	4.05
Sept. 9	<i>α</i> Cassiopeiæ .	21.19*		<i>ω</i> Piscium . .	14.96*		<i>α</i> Cygni . .	3.95
	<i>ε</i> Piscium . .	20.91*	Sept. 29	<i>ε</i> Piscium . .	14.96*		<i>α</i> Andromedæ .	3.48
	<i>θ</i> Ceti . .	20.85*		<i>α</i> Aquarii . .	11.74		<i>η</i> Piscium . .	3.38*
Sept. 10	<i>ζ</i> Aquilæ . .	17.82*		<i>α</i> Piscis Aus. .	11.58		<i>α</i> Arietis . .	3.43
	<i>ξ</i> ² Ceti . .	16.71*		<i>α</i> Pegasi . .	11.49		<i>ξ</i> ² Ceti . .	3.22*
Sept. 14	<i>α</i> Cygni . .	3.61	Sept. 30	<i>γ</i> Pegasi . .	11.47	Nov. 19	32 Vulpeculæ .	23.85*
Sept. 15	<i>β</i> Lyræ . .	0.85*		<i>μ</i> Herculis . .	8.90*		<i>ζ</i> Cygni . .	23.79*
	<i>α</i> ¹ Capricorni .	0.64		<i>γ</i> Draconis . .	8.99*		<i>α</i> Virginis . .	21.86
	<i>α</i> ² Capricorni .	0.62		<i>α</i> Pegasi . .	8.05	Nov. 22	<i>α</i> Virginis . .	12.68
	32 Vulpeculæ .	0.49*		<i>γ</i> Pegasi . .	7.95	Nov. 23	<i>α</i> Ceti . .	11.21
Sept. 16	<i>α</i> Arietis . .	56.94		<i>ε</i> Piscium . .	7.76*		<i>η</i> Tauri . .	11.11*
Sept. 17	32 Vulpeculæ .	54.53*	Oct. 1	<i>β</i> Lyræ . .	5.10*		<i>γ</i> Eridani . .	11.11*
	<i>ζ</i> Cygni . .	54.54*		<i>ρ</i> Capricorni .	4.81*	Nov. 25	<i>ε</i> Pegasi . .	6.57*
	<i>α</i> Pegasi . .	54.29	Oct. 22	<i>α</i> Piscis Aus. .	48.54		16 Pegasi . .	6.55*
Sept. 20	<i>α</i> Leonis . .	42.49		<i>γ</i> Piscium . .	48.38*		<i>α</i> Aquarii . .	6.56
Sept. 21	<i>β</i> Lyræ . .	41.20*	Oct. 23	<i>α</i> Piscium . .	48.30*	Nov. 26	<i>γ</i> Piscium . .	3.40*
	<i>β</i> Aquilæ . .	41.03		<i>γ</i> Aquilæ . .	44.99		<i>α</i> Piscium . .	3.57*
Sept. 22	<i>α</i> Aquilæ . .	37.43	Oct. 28	<i>α</i> ¹ Capricorni .	27.51		<i>θ</i> Ceti . .	3.25*
	<i>α</i> ² Capricorni .	37.30		<i>α</i> ² Capricorni .	27.45	Nov. 30	12 Ceti . .	58.43*
	<i>α</i> Cygni . .	37.02		<i>α</i> Piscis Aus. .	27.11		<i>α</i> Arietis . .	58.15
	<i>α</i> Piscis Aus. .	36.73		<i>α</i> Pegasi . .	27.17		<i>α</i> Virginis . .	56.37
	<i>α</i> Piscium . .	36.67*		<i>θ</i> Ceti . .	26.60*	Dec. 1	<i>α</i> Cygni . .	55.42
	<i>α</i> Piscium . .	36.61*		<i>ν</i> Piscium . .	26.60*		<i>ε</i> Pegasi . .	55.33*
Sept. 23	<i>α</i> Aquilæ . .	33.90	Oct. 29	<i>α</i> ¹ Capricorni .	24.03		16 Pegasi . .	55.26*
	<i>α</i> ¹ Capricorni .	33.91		<i>α</i> ² Capricorni .	24.09	Dec. 6	<i>α</i> Virginis . .	38.93
	<i>α</i> ² Capricorni .	33.77		12 Ceti . .	23.49*		<i>α</i> Bootis . .	38.58
	<i>α</i> Cygni . .	33.61	Nov. 2	<i>α</i> Aquarii . .	10.49	Dec. 7	<i>α</i> Aquarii . .	37.88
				<i>ω</i> Piscium . .	10.11*		<i>ε</i> Piscium . .	37.70*
				12 Ceti . .	10.16*	Dec. 9	<i>α</i> Pegasi . .	32.44
				<i>β</i> Ceti . .	10.09*			
Sept. 5-10	<i>n</i> = + 0.192	<i>c</i> = - 0.428	Nov. 3		<i>n</i> = + 0.318	<i>c</i> = - 0.430		
14-17	+ 0.109	+ 0.390	4		+ 0.244	- 0.430		
21-22	+ 0.241	+ 0.390	19-26		+ 0.327	- 0.430		
23-Oct. 1	+ 0.276	+ 0.390	29-Dec. 2		+ 0.386	- 0.430		
Oct. 22, 23	+ 0.143	+ 0.395	Dec. 6-7		+ 0.446	- 0.430		
28-Nov. 2	+ 0.396	- 0.430	9-15		+ 0.367	- 0.430		

TABLE OF INDIVIDUAL CLOCK CORRECTIONS.

7

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1863.			1864.			1864.		
Dec. 9	ν Piscium . .	32.05*	Jan. 1	θ Ceti . . .	20.16*	Jan. 21	ε Piscium . .	16.14*
	α Arietis . .	32.09		η Piscium . .	20.29*		θ Ceti . . .	16.04*
Dec. 10	β Aquarii . .	29.45*	Jan. 2	α Pegasi . .	16.80		η Piscium . .	16.10*
	α Piscis Aus..	29.29					α Arietis . .	16.07
	ε Piscium . .	29.18*	Jan. 5	α Arietis . .	7.21		γ Eridani . .	15.89*
Dec. 15				α Ceti . . .	7.14		σ^1 Eridani . .	15.84*
	α Piscis Aus..	15.60	Jan. 6	ω Piscium . .	4.54*	Jan. 25	δ Arietis . .	5.34*
	α Pegasi . .	15.64		γ Pegasi . .	4.51		ν Orionis . .	5.11*
	α Arietis . .	15.30		θ Ceti . . .	4.35*		γ Geminorum.	5.12
	α Ceti . . .	15.19		η Piscium . .	4.25*		α Canis Maj..	4.96
	α Tauri . .	15.03	Jan. 8	γ Virginis . .	55.79*	Jan. 27	α Andromedæ	0.57
	ε Orionis . .	14.84*		α Virginis . .	55.64		γ Pegasi . .	0.66
Dec. 21	ε Piscium . .	55.60*		η Bootis . .	55.53*		α Canis Maj..	0.05
	α Arietis . .	55.64	Jan. 9	α Andromedæ	54.23		α Geminorum	59.95
	α Ceti . . .	55.40		γ Pegasi . .	54.41		α Canis Min..	59.94
	α Tauri . .	55.12		α Arietis . .	54.12		β Geminorum	59.86
Dec. 22	ξ^2 Ceti . . .	52.49*		α Ceti . . .	53.87	Feb. 4	η Piscium . .	39.52*
	γ Ceti . . .	52.41*	Jan. 10	ε Piscium . .	50.92*	Feb. 5	α Andromedæ	37.01
Dec. 23	α Piscis Aus..	49.97		θ Ceti . . .	50.78*		α Arietis . .	36.73
	α Pegasi . .	49.89	Jan. 11	ε Piscium . .	46.99*		β Orionis . .	36.84
	α Arietis . .	49.44		θ Ceti . . .	46.84*		α Canis Maj..	36.70
	ξ^2 Ceti . . .	49.33*		α Ceti . . .	46.65	Feb. 8	ξ^2 Ceti . . .	29.43*
Dec. 26	α Andromedæ	39.99		α Tauri . .	46.60		α Canis Maj..	29.03
	γ Pegasi . .	39.96		α Orionis . .	46.45		ε Canis Maj..	29.04*
	η Tauri . .	39.48*	Jan. 12	θ Ceti . . .	44.32*	Feb. 10	β Arietis . .	24.45*
	γ Eridani . .	39.50*		γ Eridani . .	43.97*		α Ceti . . .	24.10
	α Tauri . .	39.48		σ^1 Eridani . .	43.98*		δ Arietis . .	24.19*
Dec. 29	θ Ceti . . .	29.82*	Jan. 14	α Andromedæ	38.56	Feb. 12	α Arietis . .	19.29
	η Piscium . .	29.70*		γ Pegasi . .	38.58		α Ceti . . .	19.05
	β Arietis . .	29.72*		α Arietis . .	38.41		α Tauri . .	19.04
	α Arietis . .	29.75		α Canis Maj..	37.78	Feb. 18	α Tauri . .	3.03
	α Tauri . .	29.42		α Canis Min..	37.75		α Aurigæ . .	3.15
	α Aurigæ . .	29.26		β Geminorum	37.72		β Orionis . .	3.13
	β Orionis . .	29.32	Jan. 16	β Ceti . . .	32.42*		α Orionis . .	3.06
	β Tauri . .	29.33		ε Piscium . .	32.41*	Feb. 19	γ Ceti . . .	0.75*
	α Canis Maj..	29.17		θ Ceti . . .	32.36*		β Orionis . .	0.45
Dec. 30	η Piscium . .	27.08*		γ Geminorum.	31.63*		α Orionis . .	0.26
	α Arietis . .	26.94		α Canis Maj..	31.48			
	ξ^2 Ceti . . .	26.79*						
	γ Eridani . .	26.58*						
Dec. 21-22	$n = +0.477$	$c = -0.480$	Jan. 21-27	$n = +0.210$	$c = -0.329$			
23	$+0.394$	-0.480	Feb. 4-5 (1.58)	$+0.181$	-0.329			
26-29	$+0.277$	$+0.343$	5 (1.58) -12	$+0.223$	-0.015			
30-Jan. 10, 1864	$+0.230$	$+0.343$	13	$+0.266$	-0.015			
Jan. 11-12	$+0.291$	$+0.343$	18	$+0.363$	-0.015			
14	$+0.239$	$+0.343$	19	$+0.506$	-0.015			
16	$+0.247$	-0.329						

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1864.			1864.					
Feb. 23	α Arietis . .	49.31 ^{s.}	March 17	α Leporis . .	53.49*	April 15	α Hydræ . .	34.22 ^{s.}
	α Ceti . . .	49.33	S.	ε Orionis* . .	53.28	S.	α Leonis . .	34.07
	α Geminorum	48.88	March 17	83 Cancri . .	53.06*	April 16	α Hydræ . .	32.26
	α Canis Min..	48.97	R.			R.	α Leonis . .	32.10
	β Geminorum	48.99	March 19	α Orionis . .	48.60	April 21	α Leonis . .	22.24
Feb. 24	α Geminorum	46.85	S.	α Canis Maj..	48.56	S.	α Virginis . .	21.96
	α Canis Min..	46.76	March 19	α Geminorum	48.54		α^1 Libræ . .	21.76
	β Geminorum	46.78	R.	β Geminorum	48.55		α^2 Libræ . .	21.78
Feb. 25	α Canis Min..	44.41		α Hydræ . .	48.55	April 21	β Leonis . .	22.23
	β Geminorum	44.44	March 21	α Canis Maj..	27.26	R.	β Corvi . .	22.02*
Feb. 26	α Canis Maj..	42.07	S.	ε Canis Maj..	27.17*	April 22	α Hydræ . .	20.34
	α Canis Min..	41.96		ε Leonis . .	27.04*	S.	β Leonis . .	20.12
Feb. 29	α Aurigæ . .	34.37		π Leonis . .	27.03*		β Virginis . .	20.07
	β Orionis . .	34.42	March 21	α Geminorum	27.28		α Virginis . .	20.01
March 3	α Arietis . .	27.64	R.	α Canis Min..	27.28	April 27	α Hydræ . .	11.26
	α Ceti . . .	27.69		β Geminorum	27.36	S.	ε Leonis . .	11.25*
	α Geminorum	27.18	March 24	α Hydræ . .	27.07	April 29	α Virginis . .	7.35
	α Canis Min..	27.17	S.	α Geminorum	21.33	S.	α Bootis . .	7.38
	β Geminorum	27.19		α Canis Min..	21.35		α^1 Libræ . .	7.22
March 7	β Geminorum	16.93		β Geminorum	21.32		α^2 Libræ . .	7.24
	α Hydræ . .	16.95		β Leonis . .	21.01		α Coronæ . .	7.32
March 8	α Arietis . .	15.17		β Virginis . .	20.96	April 30	α Leonis . .	6.08
March 9	α Canis Maj..	12.47	March 24	83 Cancri . .	21.22*	R.	β Virginis . .	5.97
	α Geminorum	12.43	R.	θ Ursæ Maj..	21.20*		α Virginis . .	5.93
	α Canis Min..	12.48	April 7	χ Geminorum	51.69*	May 2	α Geminorum	2.31
	β Geminorum	12.40	R.	η Cancri . .	51.80*	S.	β Geminorum	2.29
March 12	α Aurigæ . .	5.43		ε Hydræ . .	51.77*	May 3	β Geminorum	0.53
	β Orionis . .	5.46		ε Leonis . .	51.64*	S.	ε Hydræ . .	0.27*
	β Tauri . . .	5.34	April 8	η Cancri . .	49.88*		γ Leonis . .	0.28*
	83 Cancri . .	4.99*	S.	π Leonis . .	49.67*		α Virginis . .	0.07
	α Hydræ . .	5.07		α Leonis . .	49.66		α Bootis . .	59.95
March 14	α Tauri . . .	0.35	April 9	ε Hydræ . .	48.22*	May 4	α^1 Libræ . .	59.81
	π Leonis . .	59.79*	R.	83 Cancri . .	48.06*		α^2 Libræ . .	59.90
	α Leonis . .	59.82		α Hydræ . .	48.02		α Leonis . .	58.46
March 16	α Hydræ . .	55.40		ι Leonis . .	47.94*		γ Leonis . .	58.38*
				χ Leonis . .	47.84*		θ Virginis . .	58.12*
							α Bootis . .	58.08
Feb. 23		$n = + 0.415$	April 6-27		$n = + 0.114$			
24-March 8		$c = - 0.015$	29		$c = + 0.396$			
March 9-19		$+ 0.015$	30-May 4		$+ 0.057$			
21-24		$+ 0.095$			$+ 0.135$			
		$+ 0.173$			$- 0.401$			

TABLE OF INDIVIDUAL CLOCK CORRECTIONS.

Date.	Name of Star.	Value of <i>At + m</i>	Date.	Name of Star.	Value of <i>At + m</i>	Date.	Name of Star.	Value of <i>At + m</i>
1864.		<i>s.</i>	1864.		<i>s.</i>	1864.		<i>s.</i>
May 5 S.	α Leonis . .	56.53	May 23 S.	β Leonis . .	28.14	June 4	α Serpentis .	9.98
	α Bootis . .	56.25		β Virginis . .	28.08			
	α^1 Libræ . .	56.12	May 27 S.	β Virginis . .	21.75	June 6 S.	ε Bootis . .	7.61*
	α^2 Libræ . .	56.19		α Virginis . .	21.64		ψ Bootis . .	7.63*
May 6 S.	α Leonis . .	55.09		α Bootis . .	21.69		α Serpentis .	7.53
	γ Leonis . .	55.05*		α^1 Libræ . .	21.48		δ Ophiuchi .	7.40*
	β Virginis . .	54.95		α^2 Libræ . .	21.59	June 6 R.	γ Aquilæ . .	7.33
	α Virginis . .	55.06		α Coronæ . .	21.59		α^1 Capricorni	7.39
May 9 R.	ε Corvi . .	50.77*		α Serpentis .	21.52		α Cygni . .	7.22
	α Virginis . .	50.59	May 28 R.	γ Virginis . .	20.35*	June 7 S.	β Leonis . .	6.38
	η Bootis . .	50.57*		12 Canum . .	20.56*		α Virginis . .	6.22
	τ Virginis . .	50.53*		α Virginis . .	20.21		α Coronæ . .	6.22
May 10 S.	α^1 Libræ . .	49.08		α Bootis . .	20.33		α Serpentis .	6.14
	α^2 Libræ . .	49.14		ψ Bootis . .	20.18*		α Scorpil . .	6.03
	α Coronæ . .	49.07		β Libræ . .	20.09*	June 7 R.	τ Virginis . .	6.23*
May 18 R.	β Leonis . .	35.96	May 29 R.	α Virginis . .	18.49		α^1 Libræ . .	6.29
	ε Corvi . .	35.94*		α Bootis . .	18.53		α^2 Libræ . .	6.24
	ζ Virginis . .	35.83*		α^1 Libræ . .	18.35		ψ Bootis . .	6.36*
	α Bootis . .	35.64		α^2 Libræ . .	18.38	June 8 S.	α Virginis . .	4.92
May 18 S.	α Virginis . .	35.71		α Coronæ . .	18.28		α^1 Libræ . .	4.81
	α^1 Libræ . .	35.70	May 31 S.	α Serpentis .	18.17		α^2 Libræ . .	4.78
	α^2 Libræ . .	35.64		α Virginis . .	15.62	June 8 R.	α Coronæ . .	4.86
May 19 S.	α Virginis . .	34.04		α^1 Libræ . .	15.56		α Serpentis .	4.80
	α Bootis . .	33.90		α^2 Libræ . .	15.64		α Scorpil . .	4.67
	α^1 Libræ . .	33.62		α Coronæ . .	15.68	June 10 S.	α Virginis . .	1.57
	α^2 Libræ . .	33.82	June 2 R.	α Scorpil . .	15.50		α Bootis . .	1.52
	α Coronæ . .	33.83		γ Virginis . .	12.85*		α^1 Libræ . .	1.43
	α Serpentis .	33.71		12 Canum . .	12.86*		α^2 Libræ . .	1.50
May 19 R.	β Leonis . .	34.11		α Virginis . .	12.69	June 10 M.	α Scorpil . .	1.30
	β Virginis . .	34.07		α Bootis . .	12.76		α Herculis .	1.41
May 22 R.	ε Corvi . .	29.81*	June 2 S.	ρ Bootis . .	12.68*	June 13 S.	β Leonis . .	56.91
	η Virginis . .	29.84*		ε Bootis . .	12.64*		α Virginis . .	56.77
	α Bootis . .	29.73		α Coronæ . .	12.52		α^1 Libræ . .	56.66
	α^1 Libræ . .	29.45		α Serpentis .	12.46		α^2 Libræ . .	56.74
	α^2 Libræ . .	29.61	June 3 S.	α Arietis . .	10.62		α Coronæ . .	56.77
	α Coronæ . .	29.77					α Scorpil . .	56.63
	α Serpentis .	29.55	June 4 S.	α^1 Libræ . .	9.97	June 13 R.	β Scorpil . .	56.82*
	α Scorpil . .	29.28		α^2 Libræ . .	10.06		δ Ophiuchi .	56.73*
May 23 S.	α Leonis . .	28.19		α Coronæ . .	10.09			
May 5-19	$n = + 0.066$	$c = - 0.401$	May 31-June 2	$n = - 0.107$	$c = + 0.355$			

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1864. June 14 S.	β Leonis . . α Virginis . . α Coronæ . . α Serpentis . . α Scorpii . . α Herculis . . α Ophiuchi . .	^{s.} 55.90 55.83 55.84 55.73 55.70 55.72 55.72	1864. June 21 S.	α Ophiuchi . . α Lyræ . .	^{s.} 46.60 46.60	1864. June 29 S.	α Virginis . . α^1 Libræ . . α^2 Libræ . . α Coronæ . . α Serpentis . .	^{s.} 35.91 35.69 35.79 35.70 35.70
June 14 R.	ε Bootis . . α^1 Libræ . . α^2 Libræ . . β Lyræ . .	55.97* 55.84 55.89 55.77*	June 21 R.	τ Virginis . .	46.84*	June 29 M.	η Bootis . . α Bootis . .	36.10* 36.12
June 16 S.	α Bootis . . α^1 Libræ . . α^2 Libræ . . α Coronæ . . α Serpentis . . α Scorpii . . α Herculis . .	53.45 53.45 53.51 53.37 53.36 53.11 53.22	June 22 R.	α^2 Libræ . . α Coronæ . . α Serpentis . . α Herculis . . α Ophiuchi . .	45.43 45.52 45.52 45.50 45.35	June 30 S.	α^1 Libræ . . α^2 Libræ . . α Scorpii . .	34.06 34.00 33.90
June 17 S.	α Virginis . . α^2 Libræ . . α Coronæ . . α Serpentis . . α Scorpii . . α Herculis . .	52.10 51.87 51.97 51.89 51.67 51.77	June 23 R.	α Virginis . . τ Virginis . .	44.38 44.31*	June 30 R.	α Coronæ . . α Serpentis . .	34.05 34.09
June 18 M.	α Virginis . . α Bootis . . α^1 Libræ . . α^2 Libræ . .	50.84 50.89 50.78 50.86	June 23 S.	α Bootis . . α Lyræ . .	44.27 44.03	July 3 R.	α Virginis . . α Coronæ . . α Serpentis . . α Scorpii . . α Herculis . . α Ophiuchi . . α Lyræ . .	28.93 28.82 28.72 28.79 28.80 28.65 28.61
June 18 R.	α Coronæ . . α Serpentis . . δ Ophiuchi . . κ Ophiuchi . .	50.80 50.78 50.68* 50.72*	June 24 S.	α Bootis . . α^1 Libræ . . α^2 Libræ . . α Ophiuchi . .	43.00 42.87 42.89 42.67	July 4 R.	α Virginis . .	27.53
June 19 R.	α Virginis . . ζ Virginis . .	49.49 49.59*	June 24 M.	α Coronæ . . α Serpentis . . α Scorpii . .	43.13 43.08 43.05	July 4 S.	α Bootis . . α^1 Libræ . . α^2 Libræ . . α Coronæ . . α Serpentis . . α Scorpii . . α Herculis . . α Ophiuchi . .	27.36 27.33 27.31 27.25 27.31 27.15 27.24 27.16
June 21 S.	α^1 Libræ . . α^2 Libræ . . α Coronæ . . α Serpentis . . α Scorpii . . α Herculis . .	46.76 46.76 46.75 46.73 46.58 46.70	June 26 R.	ζ Herculis . .	41.00*	July 5 S.	α^1 Libræ . . α^2 Libræ . . α Coronæ . . α Serpentis . . α Lyræ . . γ Aquilæ . .	25.84 25.87 25.86 25.80 25.58 25.56
			June 27 R.	α Virginis . . α Coronæ . . α Serpentis . .	39.68 39.71 39.37	July 6 S.	β Leonis . .	24.50
			June 27 M.	ρ Bootis . . ε Bootis . .	39.63* 39.64*			
			June 28 S.	α Virginis . . α^1 Libræ . . α^2 Libræ . . α Coronæ . . α Serpentis . . α Lyræ . .	37.46 37.33 37.33 37.37 37.38 37.08			
			June 28 M.	ρ Bootis . .	37.72*			
June 14	$n = +$	^{s.} 0.079	June 22-27	$n = +$	^{s.} 0.032	June 22-27	$c = -$	^{s.} 0.326
16-19	$c = -$	0.394	28-July 5	$c = -$	0.316	28-July 5	$c = -$	0.316
21		+ 0.094	July 6		- 0.037	July 6		+ 0.316

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1864. July 6 R.	α Coronæ . α Serpentis .	$\begin{smallmatrix} s. \\ 24.37 \\ 24.38 \end{smallmatrix}$	1864. July 15 S.	α Serpentis . α Scorpii . α Herculis . α Ophiuchi .	$\begin{smallmatrix} s. \\ 11.46 \\ 11.31 \\ 11.34 \\ 11.32 \end{smallmatrix}$	1864. July 26 S.	β Aquilæ . α^1 Capricorni α^2 Capricorni	$\begin{smallmatrix} s. \\ 54.98 \\ 54.94 \\ 54.89 \end{smallmatrix}$
July 8 S.	α Virginis . α^2 Libræ . α Coronæ . α Serpentis . α Scorpii .	$\begin{smallmatrix} 21.21 \\ 21.13 \\ 20.99 \\ 20.99 \\ 20.85 \end{smallmatrix}$	July 16 R.	β Scorpii . α Herculis . α Ophiuchi . δ Aquilæ .	$\begin{smallmatrix} 9.98^* \\ 10.08 \\ 9.98 \\ 9.67^* \end{smallmatrix}$	July 27 S.	α Scorpii . α Ophiuchi .	$\begin{smallmatrix} 54.07 \\ 54.14^* \end{smallmatrix}$
July 9 S.	α Virginis . α^2 Libræ . α Coronæ . α Serpentis . γ Aquilæ .	$\begin{smallmatrix} 19.40 \\ 19.32 \\ 19.30 \\ 19.28 \\ 19.04 \end{smallmatrix}$	July 18 R.	ζ Herculis . α Herculis . α Ophiuchi . γ Aquilæ .	$\begin{smallmatrix} 7.12^* \\ 7.08 \\ 6.97 \\ 6.88 \end{smallmatrix}$	July 28 S.	α Ophiuchi . α Lyræ . γ Aquilæ . α^1 Capricorni α^2 Capricorni	$\begin{smallmatrix} 52.62 \\ 52.51 \\ 52.50 \\ 52.51 \\ 52.54 \end{smallmatrix}$
July 10 R.	ζ Herculis . α Ophiuchi .	$\begin{smallmatrix} 17.98^* \\ 17.91^* \end{smallmatrix}$	July 19 S.	α Bootis . α^2 Libræ .	$\begin{smallmatrix} 5.73 \\ 5.76 \end{smallmatrix}$	July 29 S.	α Ophiuchi . γ Aquilæ . α Aquilæ . β Aquilæ . α^1 Capricorni α^2 Capricorni α Cygni .	$\begin{smallmatrix} 51.14 \\ 51.09 \\ 51.13 \\ 51.02 \\ 51.11 \\ 50.98 \\ 50.97 \end{smallmatrix}$
July 12 S.	α Virginis . α^2 Libræ . α Coronæ . α Serpentis .	$\begin{smallmatrix} 15.82 \\ 15.81 \\ 15.82 \\ 15.86 \end{smallmatrix}$	July 19 R.	α Scorpii . α Ophiuchi . μ Herculis . μ Sagittarii . δ Aquilæ .	$\begin{smallmatrix} 5.64 \\ 5.68^* \\ 5.65^* \\ 5.60^* \\ 5.55^* \end{smallmatrix}$	July 30 S.	α Herculis . α Ophiuchi . α Lyræ .	$\begin{smallmatrix} 49.78 \\ 49.69 \\ 49.61 \end{smallmatrix}$
July 12 R.	α Scorpii . α Herculis . α Ophiuchi . μ Sagittarii . δ Aquilæ .	$\begin{smallmatrix} 15.71 \\ 15.82 \\ 15.76 \\ 15.65^* \\ 15.59^* \end{smallmatrix}$	July 20 S.	α Herculis . α Ophiuchi . γ Aquilæ . α Aquilæ . β Aquilæ .	$\begin{smallmatrix} 4.31 \\ 4.18 \\ 4.12 \\ 4.17 \\ 4.12 \end{smallmatrix}$	Aug. 1 S.	α Serpentis . α Scorpii . α Herculis . α Lyræ . α Aquilæ . β Aquilæ . α^1 Capricorni α^2 Capricorni α Cygni .	$\begin{smallmatrix} 47.32 \\ 47.14 \\ 47.20 \\ 47.09 \\ 47.07 \\ 47.07 \\ 47.06 \\ 47.03 \\ 46.97 \end{smallmatrix}$
July 13 S.	α Coronæ . α Serpentis . α Scorpii . α Herculis . α Ophiuchi . α Lyræ . α Aurigæ . β Orionis . α Canis Maj. .	$\begin{smallmatrix} 14.53 \\ 14.53 \\ 14.34 \\ 14.39 \\ 14.28 \\ 14.20 \\ 13.48 \\ 13.28 \\ 13.34 \end{smallmatrix}$	July 22 S.	α Coronæ . α Serpentis . α Herculis . α Ophiuchi .	$\begin{smallmatrix} 0.90 \\ 0.91 \\ 0.86 \\ 0.71 \end{smallmatrix}$	Aug. 5 S.	α Serpentis . α Scorpii .	$\begin{smallmatrix} 40.42 \\ 40.25 \end{smallmatrix}$
July 14 S.	α Virginis . α Coronæ . α Serpentis . α Scorpii . α Ophiuchi . γ Aquilæ .	$\begin{smallmatrix} 13.04 \\ 12.94 \\ 12.97 \\ 12.86 \\ 12.78 \\ 12.78 \end{smallmatrix}$	July 23 R.	α Herculis . α Ophiuchi . α Lyræ .	$\begin{smallmatrix} 59.29 \\ 59.27 \\ 59.14 \end{smallmatrix}$	Aug. 8 S.	α Scorpii . α Herculis . α Ophiuchi . α Lyræ . γ Aquilæ . β Aquilæ . α^1 Capricorni α^2 Capricorni	$\begin{smallmatrix} 36.24 \\ 36.25 \\ 36.21 \\ 36.05 \\ 36.07 \\ 36.09 \\ 35.91 \\ 35.94 \end{smallmatrix}$
July 15 S.	α Coronæ .	11.50	July 26 S.	α Virginis . α Bootis . α Coronæ . α Serpentis . α Scorpii . α Lyræ . γ Aquilæ . α Aquilæ .	$\begin{smallmatrix} 55.46 \\ 55.37 \\ 55.24 \\ 55.30 \\ 55.18 \\ 55.04 \\ 55.07 \\ 55.05 \end{smallmatrix}$			
July 8-10	$n = + 0.080$	$c = + 0.316$	July 29-30	$n = + 0.102$	$c = + 0.338$			
12-16	$+ 0.071$	$- 0.371$	Aug. 1	$+ 0.060$	$+ 0.338$			
18-20	$+ 0.110$	$- 0.371$	Aug. 8	$+ 0.110$	$+ 0.338$			
22-28	$+ 0.158$	$+ 0.338$						

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1864. Sept. 2 S.	α Lyræ . . . γ Aquilæ . . . α Aquilæ . . . β Aquilæ . . . α^1 Capricorni . . . α^2 Capricorni . . .	^{s.} 59.53 59.30 59.27 59.36 59.28 59.18	1864. Sept. 17 S.	α Piscis Aus. . . α Pegasi . . .	^{s.} 30.80 30.86	1864. Oct. 10 S.	α Cygni . . . 32 Vulpeculæ . . . ζ Cygni . . . α Aquarii . . . ν Piscium . . . β Arietis . . . α Arietis . . .	^{s.} 49.28 49.27* 49.33* 49.15 48.94* 49.06* 48.93
Sept. 6 S.	α Scorpil . . . α Lyræ . . . γ Aquilæ . . . β Aquilæ . . . α^1 Capricorni . . . α^2 Capricorni . . .	52.77 52.72 52.61 52.65 52.62 52.61	Sept. 26 S.	α Lyræ . . . β Lyræ . . . α Aquarii . . . α Piscis Aus. . . α Pegasi . . . α Andromedæ . . .	14.65 14.77* 14.56 14.21 14.38 14.29	Oct. 11 S.	α Aquarii . . . α Piscis Aus. . . α Pegasi . . . α Andromedæ . . . γ Pegasi . . . ϵ Piscium . . .	47.88 47.71 47.91 47.84 47.84 47.81*
Sept. 7 S.	α Scorpil . . . ϵ Pegasi . . . 16 Pegasi . . . α Aquarii . . .	51.02 50.65* 50.50* 50.51	Sept. 27 S.	α Lyræ . . . γ Aquilæ . . . α Aquilæ . . . β Aquilæ . . . α Piscis Aus. . . α Pegasi . . .	13.09 13.01 13.06 12.92 12.71 12.78	Oct. 17 S.	α Lyræ . . . γ Aquilæ . . . β Aquilæ . . . α Aquarii . . . α Piscis Aus. . . α Pegasi . . . α Andromedæ . . . γ Pegasi . . . α Arietis . . .	40.03 39.97 39.97 39.59 39.54 39.82 39.80 39.75 39.65
Sept. 9 S.	α Lyræ . . . α Aquilæ . . . β Aquilæ . . . α^2 Capricorni . . .	47.20 47.14 47.05 47.01	Sept. 29 S.	16 Pegasi . . . α Aquarii . . .	9.07* 9.23	Oct. 18 S.	ζ Cygni . . . β Aquarii . . .	38.49* 38.30*
Sept. 10 S.	α Scorpil . . . α Herculis . . . α Lyræ . . . α Piscis Aus. . . α Pegasi . . .	45.64 45.61 45.44 45.22 45.25	Sept. 30 S.	α Piscis Aus. . . α Pegasi . . . γ Pegasi . . .	7.62 7.69 7.40	Oct. 19 S.	α Lyræ . . . γ Aquilæ . . . β Aquilæ . . . α^1 Capricorni . . .	37.21 37.03 37.01 36.91
Sept. 15 S.	α Coronæ . . . β Aquarii . . .	35.32 34.85*	Oct. 5 S.	α Lyræ . . . β Lyræ . . . α^1 Capricorni . . . α^2 Capricorni . . .	57.68 57.65* 57.36 57.36	Oct. 21 S.	γ Aquilæ . . . β Aquilæ . . . α^1 Capricorni . . . α^2 Capricorni . . . α Piscis Aus. . . α Pegasi . . .	32.70 32.72 32.68 32.66 32.39 32.52
Sept. 16 S.	α Herculis . . . α Ophiuchi . . . γ Aquilæ . . . β Aquilæ . . . α^1 Capricorni . . . α^2 Capricorni . . . α Piscis Aus. . . α Pegasi . . .	33.26 33.21 33.03 33.02 32.94 32.84 32.54 32.70	Oct. 7 S.	α Ophiuchi . . . α Lyræ . . . γ Aquilæ . . . β Aquilæ . . . α Aquarii . . . α Piscis Aus. . . α Pegasi . . . γ Pegasi . . . ϵ Piscium . . .	53.75 53.79 53.68 53.62 53.53 53.31 53.52 53.46 53.39*	Oct. 24 S.	α Lyræ . . . β Lyræ . . .	26.39 26.39*
Sept. 17 S.	α Ophiuchi . . . α Lyræ . . . γ Aquilæ . . . β Aquilæ . . . α Aquarii . . .	31.19 31.16 31.02 31.08 30.87	Oct. 8 S.	α Ophiuchi . . . α Lyræ . . .	51.95 51.99	Oct. 25 S.	α Lyræ . . . γ Aquilæ . . . β Aquilæ . . . α^1 Capricorni . . .	24.75 24.69 24.78 24.65
Sept. 2	$n = + 0.141$	$c = + 0.338$	Sept. 29-30	$n = + 0.256$	$c = - 0.040$	Oct. 5	$n = + 0.196$	$c = + 0.023$
6	$+ 0.320$	$- 0.360$	Oct. 7-8	$+ 0.139$	$+ 0.023$	10	$+ 0.268$	$+ 0.023$
7	$+ 0.399$	$- 0.360$	11-26	$+ 0.309$	$+ 0.023$			
9	$+ 0.328$	$- 0.360$						
10-17 (17.51)	$+ 0.223$	$+ 0.275$						
17 (17.51) -27	$+ 0.322$	$- 0.040$						

Date.	Name of Star.	Value of <i>At+m</i>	Date.	Name of Star.	Value of <i>At+m</i>	Date.	Name of Star.	Value of <i>At+m</i>
1864. Oct. 25 S.	α^2 Capricorni α Cygni . . α Piscis Aus.. α Pegasi . . α Andromedæ γ Pegasi . .	^{s.} 24.57 24.66 24.41 24.42 24.48 24.48	1864. Nov. 10 S.	ξ^2 Ceti . . . γ Ceti . . .	^{s.} 0.28* 0.19*	1864. Nov. 19 S.	α Persei . .	^{s.} 42.32*
Oct. 26 S.	α Lyræ . . γ Aquilæ . . β Aquilæ . . α^1 Capricorni α^2 Capricorni α Pegasi . . α Andromedæ γ Pegasi . . θ Ceti . . .	23.49 23.33 23.39 23.33 23.37 23.31 23.15 23.25 22.99*	Nov. 10 M.	ε Pegasi . . α Piscis Aus.. α Pegasi . . κ Piscium . .	0.84* 0.75 0.62 0.59*	Nov. 19 M.	α Andromedæ γ Pegasi . . α Arietis . . ξ^2 Ceti . .	42.65 42.83 42.56 42.37*
Nov. 1 S.	α^1 Capricorni α^2 Capricorni α Cygni . . θ Ceti . . . α Arietis . .	14.11 13.97 14.04 13.66* 13.94	Nov. 11 S.	ζ Cygni . . β Aquarii . . α Arietis . . 67 Ceti . . . ξ^2 Ceti . . .	58.50* 58.31* 57.83 57.83* 58.08*	Nov. 21 S.	α Bootis . .	37.14
Nov. 2 S.	α Aquilæ . . β Aquilæ . . α^1 Capricorni α^2 Capricorni ε Piscium . . θ Ceti . . .	13.12 12.92 12.99 12.95 12.89* 12.80*	Nov. 11 M.	ε Pegasi . . 16 Pegasi . . α Aquarii . . α Piscis Aus.. α Pegasi . . ω Piscium . .	58.56* 58.51* 58.37 58.36 58.38 58.27*	Nov. 22 S.	γ Aquilæ . . α Aquilæ . . α Piscis Aus.. α Pegasi . .	36.83 36.87 36.54 36.67
Nov. 3 S.	α Aquilæ . . β Aquilæ . . α^1 Capricorni α^2 Capricorni α Cygni . .	12.13 12.04 11.99 12.01 12.01	Nov. 14 S.	α Aquarii . . α Piscis Aus.. α Pegasi . . α Andromedæ γ Pegasi . . α Arietis . .	51.69 51.69 51.66 51.57 51.62 51.47	Nov. 23 S.	γ Pegasi . . 12 Ceti . . . β Ceti . . . η Tauri . . . γ Eridani . .	34.97 34.96* 34.88* 34.80* 34.92*
Nov. 4 S.	α Cygni . . α Piscis Aus.. α Pegasi . . α Andromedæ γ Pegasi . .	10.57 10.28 10.40 10.30 10.44	Nov. 16 S.	α Lyræ . . γ Aquilæ . . α Aquarii . . θ Ceti . . . η Piscium . .	48.29 48.12 48.03 47.51* 47.56*	Nov. 23 M.	α Arietis . . ξ^2 Ceti . . . γ Ceti . . .	35.14 34.91* 34.95*
Nov. 10 S.	ρ Capricorni . α Cygni . . . α Andromedæ α Arietis . . 67 Ceti . . .	0.69* 0.77 0.43 0.23 0.22*	Nov. 16 M.	12 Ceti . . . β Ceti . . . ε Piscium . . α Arietis . . α Ceti . . .	47.66* 47.60* 47.71* 47.52 47.47	Nov. 25 S.	γ Aquilæ . . α Aquilæ . . β Aquilæ . . α Aquarii . . β Ceti . . .	31.11 31.22 31.14 31.10 30.90*
			Nov. 19 S.	α Lyræ . . α Aquilæ . . β Aquilæ . . α Piscis Aus.. α Pegasi . . α Ceti . . . δ Arietis . .	42.88 42.93 42.85 42.63 42.69 42.33 42.37*	Nov. 25 M.	ν Piscium . . α Arietis . . σ^1 Eridani . . ε Tauri . .	31.04* 31.06 30.97* 30.93*
						Nov. 29 S.	α Aquarii . . α Piscis Aus.. ι Piscium . .	23.73 23.56 23.58*
						Nov. 29 M.	α Andromedæ γ Pegasi . . η Piscium . .	23.60 23.68 23.49*
						Nov. 30 M.	α Aquarii . . α Piscis Aus.. 	22.20 22.25
Oct. 31-Nov. 4 Nov. 10 11-14 15-19	$n = +$ $c = +$	^{s.} 0.282 0.277 0.114 0.232	Nov. 22-23 25 29 30-Dec. 1	$n = +$ $c = +$	^{s.} 0.158 0.264 0.215 0.170	$c = +$ $c = +$	^{s.} 0.277 0.277 0.277 0.277	

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1864. Nov. 30 M.	α Pegasi . . α Andromedæ γ Pegasi . . γ Ceti . . . α Ceti . . . δ Arietis . .	^{s.} 22.21 21.97 22.13 21.86* 21.82 21.78*	1864. Dec. 20 M.	α Arietis . . α Ceti . . .	^{s.} 42.39 42.14	1865. Jan. 12 S.	α Arietis . . α Ceti . . . α Tauri . .	^{s.} 22.93 22.83 22.84
Dec. 1 S.	α Aquarii . . α Piscis Aus. . α Pegasi . . γ Pegasi . .	20.19 20.11 20.07 19.88	Dec. 30 M.	α Pegasi . . α Andromedæ γ Pegasi . . α Arietis . . α Ceti . . . α Persei . .	22.15 22.27 22.21 22.21 22.08 22.13*	Jan. 12 M.	η Tauri . . γ Eridani . . σ^1 Eridani . . ϵ Tauri . .	22.89* 22.93* 22.90* 22.89*
Dec. 5 M.	α Andromedæ γ Pegasi . .	12.80 12.74	1865. Jan. 2 M.	α Aurigæ . . β Orionis . . β Tauri . . α Orionis . .	37.12 36.61 36.87 36.65	Jan. 13 M.	γ Ceti . . . α Ceti . . . α Tauri . . α Aurigæ . . β Orionis . .	21.97* 22.09 22.10 22.27 22.13
Dec. 8 S.	α Aquilæ . . α Cygni . . . α Andromedæ γ Pegasi . . α Arietis . .	8.00 7.89 7.72 7.62 7.53	Jan. 3 M.	α Andromedæ γ Pegasi . .	35.63 35.68	Jan. 16 M.	γ Pegasi . . β Ceti . . . α Ceti . . . α Tauri . . α Aurigæ . . β Orionis . . β Tauri . . α Orionis . . α Canis Maj. . α Geminorum α Canis Min. . β Geminorum.	18.14 18.00* 17.80 17.89 17.91 17.78 17.85 17.85 17.82 18.01 17.97 17.95
Dec. 8 M.	α Aquarii . . α Piscis Aus. . α Pegasi . .	7.95 7.97 7.94	Jan. 3 S.	β Ceti . . . ϵ Piscium . . ν Piscium . . α Arietis . .	35.36* 35.42* 35.57* 35.62	Jan. 16 S.	η Piscium . . ν Piscium . . α Arietis . .	17.80* 17.85* 17.90
Dec. 9 S.	α Aquarii . . α Piscis Aus. . α Pegasi . .	5.63 5.54 5.58	Jan. 4 M.	η Tauri . . γ Eridani . . α Tauri . . α Aurigæ . . β Orionis . . β Tauri . . α Orionis . .	33.93* 33.85* 33.94 34.12 34.07 34.05 34.00	Jan. 18 M.	α Andromedæ γ Pegasi . . α Tauri . . α Aurigæ . . β Orionis . . β Tauri . . α Orionis . .	15.72 15.74 15.54 15.67 15.34 15.62 15.61
Dec. 9 M.	α Andromedæ γ Pegasi . . α Arietis . . ξ^2 Ceti . . .	5.77 5.66 5.68 5.66*	Jan. 11 M.	α Pegasi . . α Andromedæ γ Pegasi . . α Tauri . . α Aurigæ . . β Orionis . . α Orionis . . α Canis Maj. .	23.56 23.71 23.77 23.69 23.88 23.62 23.73 23.54	Jan. 18 S.	η Piscium . . ν Piscium . . α Arietis . . ξ^2 Ceti . . .	15.38* 15.41* 15.41 15.38*
Dec. 13 S.	α Cygni . .	55.84	Jan. 11 S.	ν Piscium . . β Arietis . .	23.54* 23.51*	Jan. 20 M.	α Andromedæ α Arietis . .	12.76 12.77
Dec. 14 S.	θ Ceti . . . α Arietis . . α Ceti . . .	54.61* 54.52 54.51						
Dec. 20 S.	α Cygni . . α Andromedæ γ Pegasi . .	42.36 42.11 42.21						
Dec. 20 M.	θ Ceti . . . η Piscium . .	42.29* 42.27*						
Dec. 5-8	$n = + 0.103$ $c = + 0.277$		Dec. 9-Jan. 25, 1865	$n = + 0.229$ $c = - 0.309$				

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1865. Jan. 20 M.	α Ceti . . . α Tauri . . . α Aurigæ . . . β Orionis . . . β Tauri . . . α Orionis . . . α Canis Maj. .	^{s.} 12.79 12.80 12.94 12.71 12.79 12.72 12.58	1865. Jan. 28 S.	α Tauri . . . μ Geminorum	^{s.} 0.79 0.79*	1865. Feb. 3 M.	α Aurigæ . . . β Orionis . . . β Tauri . . .	^{s.} 53.01 52.89 52.95
Jan. 24 S.	α Arietis . . . α Ceti . . . α Orionis . . . α Canis Maj. .	5.67 5.59 5.50 5.25	Jan. 28 M.	ι Aurigæ . . . α Aurigæ . . . β Tauri . . .	0.93* 1.09 0.99	Feb. 9 S.	α Arietis . . . α Ceti . . . α Aurigæ . . . β Orionis . . . α Orionis . . . α Canis Maj. . α Geminorum α Canis Min. . β Geminorum	43.02 42.79 42.96 42.87 42.96 42.80 42.84 42.81 42.87
Jan. 24 M.	α Tauri . . . α Aurigæ . . . β Orionis . . .	5.78 5.76 5.53	Jan. 30 M.	α Arietis . . . γ Ceti . . . α Tauri . . . α Aurigæ . . . β Orionis . . . α Orionis . . . α Canis Maj. . α Geminorum α Canis Min. . β Geminorum	59.00 58.85* 58.79 58.88 58.96 58.89 58.83 58.78 58.81 58.87	Feb. 9 M.	ε Tauri . . . α Tauri . . . ι Aurigæ . . .	43.10* 43.19 43.17*
Jan. 25 M.	β Ceti . . . β Arietis . . . α Arietis . . . α Tauri . . . α Aurigæ . . . β Orionis . . . β Tauri . . . α Orionis . . . α Canis Maj. .	4.53* 4.58* 4.75 4.69 4.92 4.58 4.65 4.75 4.62	Feb. 1 S.	η Tauri . . . γ Eridani . . . σ^1 Eridani . . . ε Tauri . . . χ Geminorum ι Navis . . .	56.47* 56.38* 56.41* 56.47* 56.26* 55.96*	Feb. 11 S.	α Arietis . . . α Ceti . . . α Tauri . . . α Aurigæ . . . β Orionis . . . β Tauri . . . α Orionis . . .	40.11 40.07 40.20 40.05 40.02 40.07 40.19
Jan. 26 S.	β Arietis . . . α Arietis . . . ξ^2 Ceti . . . α Tauri . . . α Aurigæ . . . β Orionis . . . β Tauri . . .	3.41* 3.44 3.31* 3.36 3.30 3.36 3.37	Feb. 1 M.	α Tauri . . . α Aurigæ . . . β Orionis . . . β Tauri . . . α Orionis . . . α Canis Maj. . α Geminorum α Canis Min. . β Geminorum	56.60 56.80 56.62 56.51 56.62 56.45 56.44 56.40 56.46	Feb. 13 M.	α Ceti . . . α Tauri . . . α Aurigæ . . . β Orionis . . . β Tauri . . . α Orionis . . .	35.70 35.96 36.03 35.90 35.87 35.98
Jan. 27 M.	β Arietis . . . α Arietis . . . α Ceti . . . α Tauri . . . α Aurigæ . . . β Orionis . . . β Tauri . . . α Orionis . . . α Canis Maj. .	1.98* 2.10 1.86 1.91 1.90 1.91 2.04 1.89 1.80	Feb. 2 S.	α Arietis . . . α Tauri . . . α Aurigæ . . . β Orionis . . . α Canis Maj. . α Geminorum α Canis Min. . β Geminorum	54.71 54.53 54.49 54.46 54.23 54.11 54.19 54.14	Feb. 14 S.	α Arietis . . . α Ceti . . . α Canis Min. . β Geminorum	35.17 35.01 35.00 34.94
Jan. 28 S.	α Arietis . . . α Ceti . . .	0.93 0.77	Feb. 2 M.	ε Orionis . . . α Orionis . . . ν Orionis . . .	54.47* 54.53 54.41*	Feb. 14 M.	α Aurigæ . . . β Orionis . . . α Orionis . . . α Canis Maj. .	35.36 35.27 35.28 35.23
Jan. 26-30		^{s.} $n = +0.175$	Feb. 9-11		^{s.} $n = +0.137$	Feb. 21 S.	α Arietis . . . α Ceti . . . α Aurigæ . . . β Orionis . . .	22.90 22.79 22.69 22.71
Feb. 1		$+0.097$	Feb. 13		$+0.071$			
Feb. 2, 3		$+0.171$	Feb. 14-22		$+0.184$			
		^{s.} $c = +0.281$			^{s.} $c = +0.281$			

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1865. Feb. 21 S.	α Orionis . . α Geminorum α Canis Min.. β Geminorum	^{s.} 22.74 22.60 22.60 22.56	1865. March 6 M.	β Geminorum α Hydræ . .	^{s.} 6.40 6.31	1865. March 18 S.	α Canis Maj.. α Canis Min.. β Geminorum	^{s.} 55.93 55.88 55.94
Feb. 21 M.	γ Geminorum α Canis Maj.. δ Geminorum	22.84* 22.77 22.73*	March 6 S.	α Aurigæ . . β Orionis . .	6.38 6.36	March 20 M.	α Tauri . . α Aurigæ . . β Orionis . . β Tauri . . α Orionis . . α Ophiuchi . . α Lyræ . .	54.49 54.61 54.55 54.48 54.41 54.21 54.12
Feb. 22 M.	α Orionis . .	21.88	March 7 S.	α Aurigæ . . β Orionis . .	5.61 5.54	March 21 S.	α Aurigæ . . β Orionis . . β Tauri . .	53.88 53.84 53.80
Feb. 24 M.	α Arietis . . α Aurigæ . . β Orionis . . β Tauri . . α Orionis . . α Canis Maj.. α Geminorum α Canis Min.. β Geminorum	19.26 19.32 19.32 19.24 19.28 19.23 19.14 19.36 19.30	March 8 M.	η Cancri . . ε Hydræ . .	4.88* 4.84*	March 23 S.	α Hydræ . . α Leonis . .	51.30 51.28
Feb. 25 S.	α Arietis . . α Ceti . . α Tauri . . α Aurigæ . . β Orionis . . α Canis Maj.. α Geminorum	18.14 17.99 17.92 18.01 18.03 17.86 17.84	March 10 M.	ε Hydræ . . 83 Cancri . . α Leonis . . ι Leonis . . χ Leonis . .	2.88* 2.80* 2.86 2.69* 2.73*	March 25 S.	α Aurigæ . . α Hydræ . . α Leonis . . β Leonis . . β Virginis . .	49.21 49.04 48.99 48.99 48.94
Feb. 27 M.	α Arietis . . α Aurigæ . . β Orionis . . β Tauri . .	14.59 14.72 14.67 14.53	March 13 M.	α Tauri . . α Aurigæ . . β Orionis . . β Tauri . . α Canis Maj.. α Geminorum β Geminorum	0.25 0.40 0.23 0.25 0.30 0.18 0.32 0.10	March 25 M.	α Geminorum ι Ursæ Maj. .	49.20 49.12*
March 4 S.	α Canis Maj.. α Geminorum α Canis Min.. β Geminorum π Leonis . . α Leonis . .	10.02 9.95 10.03 9.99 9.91* 9.94	March 16 M.	α Aurigæ . . β Orionis . . β Tauri . .	58.25 58.27 58.17	March 27 M.	α Aurigæ . . β Orionis . . β Tauri . . α Orionis . . α Geminorum α Canis Min.. β Geminorum α Hydræ . . α Leonis . . χ Leonis . . δ Leonis . .	47.45 47.45 47.31 47.42 47.36 47.35 47.42 47.30 47.17 47.10* 47.28*
March 6 M.	ε Tauri . . α Tauri . . α Canis Maj.. α Geminorum α Canis Min..	6.28* 6.42 6.47 6.40 6.40	March 17 M.	α Tauri . . α Aurigæ . . β Orionis . . β Tauri . . α Canis Maj.. α Canis Min.. β Geminorum α Hydræ . . α Leonis . . γ Leonis . .	57.05 57.17 56.97 57.02 57.05 56.97 57.00 56.87 56.83 56.81*	March 28 M.	α Orionis . . α Geminorum α Canis Min.. β Geminorum α Hydræ . . α Leonis . .	46.76 46.77 46.79 46.71 46.59 46.66
Feb. 24 25-March 13		$n = + \begin{smallmatrix} s. \\ 0.130 \\ 0.175 \end{smallmatrix}$	March 17-28		$c = + \begin{smallmatrix} s. \\ 0.281 \\ 0.316 \end{smallmatrix}$			$n = + \begin{smallmatrix} s. \\ 0.059 \\ 0.316 \end{smallmatrix}$

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1865. April 1 S.	α Orionis . .	^{s.} 43.48	1865. April 11 S.	π Leonis . . α Leonis . . ρ Leonis . .	^{s.} 36.83* 36.66 36.74*	1865. April 17 S.	12 Canum . . α Virginis . .	^{s.} 29.90* 29.90
April 3 M.	α Tauri . . α Aurigæ . . β Orionis . . β Tauri . . α Orionis . . α Canis Maj.. α Hydræ . . α Leonis . .	42.09 41.95 42.24 42.07 42.16 42.35 42.30 42.29	April 12 M.	γ Leonis . . ε Leonis . . δ Leonis . . δ Crateris . .	35.89* 35.83* 35.91* 35.96*	April 18 S.	β Geminorum β Leonis . . β Virginis . . α Virginis . .	28.90 28.72 28.75 28.73
April 3 S.	α Geminorum α Canis Min.. β Geminorum	42.14 42.13 42.11	April 13 M.	α Aurigæ . . β Orionis . . β Tauri . . α Orionis . . α Canis Maj.. α Geminorum α Canis Min.. α Hydræ . . α Leonis . . β Leonis . . β Virginis . . α Virginis . .	34.43 34.55 34.47 34.46 34.43 34.40 34.38 34.18 34.15 34.05 34.08 34.04	April 19 M.	α Aurigæ . . β Orionis . . α Orionis . . α Canis Maj.. α Geminorum α Canis Min.. β Geminorum α Hydræ . . β Leonis . . β Virginis . .	28.12 28.29 28.22 28.22 28.22 28.23 28.21 28.10 28.00 28.04
April 4 S.	α Orionis . . α Canis Maj.. α Canis Min.. β Geminorum β Corvi . .	41.59 41.55 41.57 41.49 41.43*	April 14 S.	α Orionis . . α Canis Maj.. α Hydræ . . α Leonis . . β Leonis . . β Virginis . . α Virginis . .	32.99 33.03 32.86 32.82 32.83 32.87 32.80	April 19 S.	ε Leonis . . μ Leonis . .	28.02* 28.05**
April 4 M.	χ Geminorum ι Navis . . η Cancri . .	41.60* 41.55* 41.51*	April 17 S.	α Aurigæ . .	30.17	April 24 M.	β Orionis . . β Tauri . . α Orionis . . α Canis Maj.. α Geminorum α Canis Min.. β Geminorum α Leonis . . β Leonis . . β Virginis . . α Virginis . .	22.31 22.25 22.30 22.24 22.38 22.36 22.37 22.34 22.32 22.23 22.16
April 5 M.	α Aurigæ . . β Orionis . . β Tauri . . α Orionis . . α Hydræ . . α Leonis . . β Leonis . . β Virginis . .	41.18 41.09 41.16 41.19 40.73 40.76 40.68 40.66	April 17 M.	β Orionis . . β Tauri . . α Orionis . . α Canis Maj.. α Geminorum α Canis Min.. β Geminorum α Hydræ . . α Leonis . . β Leonis . . β Virginis . . β Lyrae . .	30.17 30.21 30.24 30.17 30.21 30.23 30.18 30.10 30.16 30.09 30.02 29.74*	April 25 M.	α Orionis . . α Canis Maj.. α Geminorum α Canis Min.. β Geminorum α Hydræ . . α Leonis . . β Leonis . . β Virginis . . α Virginis . .	21.51 21.46 21.42 21.40 21.44 21.32 21.41 21.47 21.38 21.38
April 8 S.	α Aurigæ . . β Tauri . . β Leonis . . η Virginis . .	38.92 38.83 38.57 38.48*	April 17 S.	γ Virginis . .	29.97*	April 26 M.	α Orionis . . α Canis Maj..	20.94 20.87
April 8 M.	ε Leonis . . α Leonis . . δ Leonis . . δ Crateris . .	38.81* 38.78 38.81* 38.69*						
April 1-4 5-8	$n = + 0.206$ $+ 0.004$	$c = - 0.351$ $- 0.351$	April 11-26	$n = + 0.067$ $c = - 0.351$				

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1865. April 26 M.	α Geminorum α Canis Min.. β Geminorum α Hydræ . . α Leonis . .	^{s.} 20.87 20.82 20.88 20.78 20.81	1865. May 18 S.	α^2 Libræ . . α Coronæ . . α Serpentis . .	^{s.} 3.00 3.13 3.02	1865. June 1 S.	α^1 Libræ . . α^2 Libræ . .	^{s.} 50.69 50.61
May 3 M.	α Leonis . . β Virginis . . α Virginis . . α Bootis . .	15.23 15.16 15.19 15.15	May 23 M.	β Leonis . . β Virginis . . α Bootis . .	59.48 59.38 59.36	June 2 S.	η Virginis . . θ Virginis . . α Virginis . . α Bootis . . α^1 Libræ . . α^2 Libræ . .	49.74* 49.83* 49.88 49.77 49.71 49.83
May 10 S.	α Geminorum α Canis Min.. α Leonis . . β Leonis . . β Virginis . .	9.47 9.51 9.41 9.25 9.22	May 23 S.	θ Virginis . . α Virginis . .	59.28* 59.21	June 3 S.	γ Leonis . . α Virginis . . α Bootis . . α^1 Libræ . . α^2 Libræ . . α Coronæ . . α Serpentis . .	49.00* 48.99 48.95 48.89 48.88 49.01 48.88
May 12 M.	α Virginis . .	7.59	May 24 S.	α Leonis . . β Leonis . . β Virginis . . α Virginis . . α Bootis . .	58.32 58.26 58.21 58.12 58.16	June 5 S.	α Virginis . . α Bootis . . ϵ Bootis . .	47.94 47.82 47.92*
May 13 M.	α Geminorum α Canis Min..	7.13 7.06	May 25 M.	α Leonis . . β Leonis . . β Virginis . . α Virginis . . α Bootis . . α^1 Libræ . . α^2 Libræ . .	57.10 57.08 57.10 57.02 57.01 56.93 57.01	June 6 S.	α Leonis . . α Virginis . . α Coronæ . . α Serpentis . .	46.93 46.75 46.64 46.61
May 13 S.	β Geminorum β Virginis . . α Virginis . .	7.07 6.87 6.75	May 26 M.	α Geminorum α Canis Min.. β Geminorum. β Leonis . . β Virginis . . α Bootis . . α^1 Libræ . . α^2 Libræ . .	56.20 56.24 56.19 56.06 56.05 56.23 56.14 56.09	June 7 S.	η Virginis . . θ Virginis . . α Virginis . .	45.76* 45.81* 45.80
May 15 M.	α Geminorum α Canis Min.. β Geminorum α Hydræ . . α Leonis . . β Leonis . . β Virginis . . α Virginis . . α Bootis . . α^1 Libræ . . α^2 Libræ . .	5.61 5.61 5.68 5.63 5.60 5.50 5.53 5.47 5.44 5.31 5.33	May 26 S.	θ Virginis . . α Virginis . .	56.08* 56.19	June 8 S.	α Leonis . . θ Virginis . . α Virginis . .	44.89 44.89* 44.82
May 17 M.	α Geminorum α Canis Min.. β Geminorum	4.41 4.44 4.34	May 30 S.	α Virginis . . α^1 Libræ . . α^2 Libræ . . α Coronæ . .	52.14 52.06 52.13 52.15	June 12 S.	α Bootis . . α Coronæ . . α Serpentis . .	40.82 40.85 40.77
May 18 S.	β Leonis . . β Virginis . . α Virginis . . α Bootis . .	3.25 3.21 3.20 3.09	May 31 S.	α Virginis . . ζ Virginis . .	51.45 51.41*	June 13 S.	α Leonis . . α Bootis . . α^1 Libræ . . α^2 Libræ . . α Coronæ . . α Serpentis . .	40.14 40.07 40.14 40.07 40.13 40.12
			June 1 S.	α Virginis . . α Bootis . .	50.51 50.56	June 19 M.	α Leonis . .	35.15
May 1-18 23-26		$n = + 0.027$ - 0.008				May 29-June 29		$n = + 0.045$ $c = - 0.344$

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1865. June 19 M.	α Virginis . . α Bootis . . α^1 Libræ . . α^2 Libræ . .	^{s.} 35.04 35.04 34.94 34.97	1865. June 29 S.	α Bootis . . α^1 Libræ . . α^2 Libræ . . α Coronæ . . α Serpents . . α Scorpil . .	^{s.} 27.18 27.16 27.20 27.09 27.10 27.09	1865. July 13 S.	α Serpents . . α Scorpil . .	^{s.} 34.00 33.87
June 20 M.	α Leonis . .	33.84	July 3 M.	α Virginis . . α Bootis . . α^1 Libræ . . α^2 Libræ . . α Coronæ . . α Serpents . . α Scorpil . . α Herculis . .	13.14 13.20 13.14 13.05 13.17 13.02 13.18 13.02	July 14 M.	α Virginis . . α^2 Libræ . . α Coronæ . . α Serpents . . α Scorpil . . α Herculis . . α Ophiuchi . .	33.45 33.40 33.48 33.39 33.41 33.34 33.34
June 20 S.	α Virginis . . α Bootis . .	33.79 33.69	July 5 M.	α Leonis . . α Virginis . .	36.87 36.80	July 15 M.	α Coronæ . . α Serpents . . α Scorpil . . α Herculis . . α Ophiuchi . .	32.97 32.92 32.96 32.81 32.96
June 21 M.	α Bootis . . α^1 Libræ . . α^2 Libræ . . α Serpents . .	33.16 33.14 33.15 33.13	July 5 S.	α Coronæ . . α Serpents . . α Scorpil . . α Herculis . . α Ophiuchi . .	36.57 36.61 36.58 36.66 36.59	July 17 M.	α Coronæ . . α Serpents . . α Scorpil . . α Herculis . . α Ophiuchi . . α Lyrae . .	31.92 31.88 31.73 31.81 31.84 31.77
June 23 M.	α Virginis . . α Bootis . . α^1 Libræ . . α^2 Libræ . . α Herculis . . α Ophiuchi . .	31.44 31.30 31.53 31.52 31.37 31.33	July 8 S.	α Virginis . . α Bootis . .	35.87 35.84	July 18 S.	α Virginis . .	31.17
June 24 M.	α Virginis . . α Bootis . .	30.67 30.59	July 8 M.	α^2 Libræ . . α Coronæ . . α Serpents . . α Scorpil . . α Herculis . .	35.90 35.89 36.07 35.90 35.88	July 18 M.	α Coronæ . . α Serpents . . α Scorpil . . α Herculis . . α Ophiuchi . .	31.39 31.21 31.16 31.30 31.25
June 24 S.	α^1 Libræ . . α^2 Libræ . . α Coronæ . . α Serpents . .	30.40 30.49 30.56 30.48	July 10 M.	α Coronæ . . α Serpents . .	35.14 35.23	July 20 M.	α Virginis . .	30.42
June 27 M.	α Leonis . . α Virginis . . α Bootis . . α^1 Libræ . . α^2 Libræ . . α Serpents . . α Scorpil . . α Herculis . .	29.46 29.36 29.50 29.41 29.30 29.25 29.31 29.26	July 11 S.	α Coronæ . . α Serpents . . α Scorpil . .	34.75 34.60 34.57	July 20 S.	α Coronæ . . α Serpents . . α Scorpil . . α Herculis . . α Ophiuchi . . α Lyrae . .	30.42 30.31 30.20 30.33 30.34 30.44
June 28 S.	α Bootis . . α^1 Libræ . . α^2 Libræ . . α Coronæ . . α Serpents . .	28.09 27.98 27.99 28.04 27.98	July 12 M.	α Serpents . .	34.53	July 21 M.	α Virginis . . α Coronæ . . α Serpents . .	30.07 30.13 30.05
June 29 S.	α Virginis . .	27.16	July 13 S.	α Virginis . . α^2 Libræ . . α Coronæ . .	34.06 33.97 33.96			
July 3-11 13-15	$n = -0.003$ $+0.061$	$c = +0.286$ $+0.286$	July 17-26	$n = -0.025$ $c = -0.286$				

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1865. July 22 S.	α Virginis . . α Bootis . . α Herculis . . α Ophiuchi . . α Lyræ . .	^{s.} 29.50 29.57 29.59 29.55 29.67	1865. July 28 M.	β Aquilæ . .	^{s.} 27.50	1865. Aug. 12 M.	α Virginis . . α Herculis . . α Ophiuchi . . α Lyræ . . γ Aquilæ . . β Aquilæ . .	^{s.} 21.08 21.15 21.09 21.25 20.94 20.95
July 22 M.	α^2 Libræ . . α Coronæ . . α Serpentis . . α Scorpïi . .	29.67 29.75 29.70 29.60	July 31 M.	α Virginis . . α Bootis . . α Serpentis . . α Scorpïi . . α Herculis . . α Ophiuchi . . α Lyræ . . γ Aquilæ . .	26.36 26.42 26.29 26.10 26.25 26.19 26.26 26.13	Aug. 14	α Virginis . . α Bootis . . α Herculis . . α Ophiuchi . . α Lyræ . . γ Aquilæ . . α Aquilæ . .	19.76 19.68 19.74 19.62 19.75 19.53 19.68
July 24 M.	α Virginis . . α Bootis . . α Coronæ . . α Serpentis . . α Ophiuchi . . α Lyræ . . γ Aquilæ . . α Aquilæ . . β Aquilæ . .	28.95 28.98 28.98 28.96 28.86 28.94 28.92 28.99 28.95	Aug. 1 S.	α Bootis . . α Scorpïi . . α Herculis . . α Ophiuchi . .	25.64 25.59 25.65 25.60	Aug. 15 M.	α Ophiuchi . . α Lyræ . . γ Aquilæ . . α Aquilæ . . β Aquilæ . .	19.35 19.54 19.38 19.37 19.32
July 26 M.	α Serpentis . . α Scorpïi . . α Herculis . . α Ophiuchi . . α Lyræ . . γ Aquilæ . . α Aquilæ . . β Aquilæ . .	28.50 28.47 28.54 28.43 28.60 28.54 28.62 28.54	Aug. 2 M.	α Scorpïi . . α Herculis . . α Ophiuchi . . α Lyræ . . γ Aquilæ . . β Aquilæ . .	25.54 25.48 25.47 25.50 25.53 25.42	Aug. 16 M.	α Herculis . .	18.95
July 27 S.	α Virginis . . α Bootis . . α Lyræ . . δ Aquilæ . . h^2 Sagittarii . .	27.83 27.80 27.75 27.56* 27.61*	Aug. 4	α Herculis . . α Ophiuchi . . α Lyræ . . γ Aquilæ . . β Aquilæ . .	24.86 24.87 24.96 24.77 24.82	Aug. 18 M.	α Lyræ . . γ Aquilæ . . α Aquilæ . . β Aquilæ . .	17.60 17.32 17.52 17.49
July 27 M.	α Coronæ . . α Serpentis . . α Scorpïi . . α Herculis . . α Ophiuchi . .	27.99 27.89 27.77 27.85 27.78	Aug. 8 M.	α Scorpïi . . α Herculis . . α Ophiuchi . . γ Aquilæ . . α Aquilæ . . β Aquilæ . .	23.22 23.21 23.28 23.27 23.22 23.26	Aug. 19 S.	α Herculis . . α Ophiuchi . . α Lyræ . .	16.80 16.67 16.74
July 28 M.	α Serpentis . . α Scorpïi . . α Ophiuchi . . α Lyræ . . γ Aquilæ . .	27.54 27.50 27.51 27.62 27.56	Aug. 9 M.	α Lyræ . . γ Aquilæ . . β Aquilæ . .	22.71 22.67 22.56	Aug. 21 M.	α Bootis . . α Serpentis . . α Ophiuchi . .	15.96 16.04 16.00
			Aug. 10 M.	α Virginis . . α Bootis . .	21.97 21.79	Aug. 23 M.	α Lyræ . . γ Aquilæ . . α Aquilæ . . β Aquilæ . .	14.49 14.20 14.17 14.21
						Aug. 24 M.	α Lyræ . . γ Aquilæ . . α Aquilæ . . β Aquilæ . .	13.08 12.90 12.94 12.85
July 27-28	$n = + 0.023$	$c = - 0.220$	Aug. 18-23	$n = + 0.147$	$c = - 0.220$			
July 29-Aug. 16	$n = + 0.063$	$c = - 0.220$	Aug. 24-25	$n = + 0.192$	$c = - 0.220$			

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1865. Aug. 25 M.	α Virginis . . α Ophiuchi . . α Lyræ . . . γ Aquilæ . . . α Aquilæ . . . β Aquilæ . . .	^{s.} 12.03 12.03 12.06 11.99 12.05 12.05	1865. Sept. 6 M.	α^1 Capricorni α^2 Capricorni	^{s.} 4.51 4.40	1865. Sept. 14 S.	α^2 Capricorni	^{s.} 58.47
Aug. 26 S.	α Lyræ . . . γ Aquilæ . . .	11.33 11.17	Sept. 7 S.	α Scorpii . . α Lyræ . . . γ Aquilæ . . . α Aquilæ . . . α Cygni . . .	3.73 3.84 3.77 3.82 3.58	Sept. 15 M.	α Lyræ . . . γ Aquilæ . . . α Aquilæ . . . β Aquilæ . . . α^1 Capricorni α^2 Capricorni α Aquarii . .	58.40 58.34 58.41 58.32 58.33 58.37 58.38
Aug. 28 M.	α Herculis . . α Ophiuchi . . α Lyræ . . . γ Aquilæ . . . α Aquilæ . . . β Aquilæ . . .	9.99 9.97 9.83 9.93 9.88 9.81	Sept. 9 S.	γ Aquilæ . . . β Aquilæ . . . α^1 Capricorni α^2 Capricorni	2.20 2.10 1.97 1.97	Sept. 16 S.	α Lyræ . . . α^1 Capricorni α^2 Capricorni α Aquarii . .	57.44 57.28 57.32 57.24
Aug. 29 S.	α Coronæ . . α Serpentis . . α Lyræ . . .	9.17 9.10 9.04	Sept. 11 M.	γ Aquilæ . . . α Aquilæ . . . β Aquilæ . . . α^1 Capricorni α^2 Capricorni α Aquarii . . α Piscis Aus.. α Pegasi . .	0.59 0.69 0.56 0.49 0.50 0.54 0.48 0.56	Sept. 19 M.	α Herculis . . α Ophiuchi . . α Lyræ . . . γ Aquilæ . . . α Aquilæ . . . β Aquilæ . . . α^1 Capricorni α^2 Capricorni α Aquarii . .	55.16 55.06 55.20 55.10 55.23 54.97 54.98 55.08 54.85
Aug. 31 S.	α Lyræ . . . α Cygni . . .	7.26 7.27	Sept. 12 M.	α Lyræ . . . γ Aquilæ . . . α Aquilæ . . . β Aquilæ . . . α^1 Capricorni α^2 Capricorni α Cygni . . . α Piscis Aus.. α Pegasi . .	0.33 0.16 0.25 0.04 0.06 59.99 0.15 0.18 59.99	Sept. 21 S.	α^2 Capricorni	52.99
Sept. 2 S.	α Lyræ . . . γ Aquilæ . . . β Aquilæ . . . α^1 Capricorni α^2 Capricorni	7.04 6.95 6.92 6.99 6.96	Sept. 13 M.	α Lyræ . . . γ Aquilæ . . . α Aquilæ . . . β Aquilæ . . . α^1 Capricorni α^2 Capricorni α Aquarii . . α Piscis Aus.. α Pegasi . . α Andromedæ γ Pegasi . .	59.58 59.41 59.47 59.46 59.44 59.46 59.35 59.29 59.32 59.24 59.29	Sept. 22 M.	α Lyræ . . .	52.69
Sept. 4 M.	α Ophiuchi . . α Lyræ . . . γ Aquilæ . . . β Aquilæ . . .	5.86 5.86 5.99 5.85	Sept. 14 S.	γ Aquilæ . . . α^1 Capricorni	58.51 58.53	Sept. 23 S.	α Lyræ . . . α Cygni . . . α Pegasi . . .	51.38 51.19 51.05
Sept. 5 S.	γ Aquilæ . . . β Aquilæ . . . α^1 Capricorni α^2 Capricorni	5.02 5.00 5.06 5.11				Sept. 25 M.	α Lyræ . . . γ Aquilæ . . . α Aquilæ . . . β Aquilæ . . . α^1 Capricorni α^2 Capricorni α Piscis Aus.. α Pegasi . . . γ Pegasi . . .	49.29 49.34 49.35 49.32 49.26 49.19 48.91 49.17 49.23
Sept. 6 S.	α Ophiuchi . . μ Herculis . . μ Sagittarii . .	4.66 4.48* 4.50*				Sept. 26 S.	α Lyræ . . . α Aquarii . . .	48.26 47.81
Sept. 6 M.	α Lyræ . . . γ Aquilæ . . . β Aquilæ . . .	4.62 4.54 4.50						
Aug. 26-Sept. 5		$n = + 0.137$	Sept. 16		$n = + 0.150$	Sept. 19-21		$c = + 0.230$
Sept. 6-12		$+ 0.060$	19-21		$+ 0.206$	22-26		$+ 0.237$
13-15		$+ 0.130$	22-26		$+ 0.175$			$- 0.275$

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1865. Sept. 26 S.	θ Aquarii . . 12 Ceti . .	$\begin{smallmatrix} s. \\ 47.73^* \\ 47.95^* \end{smallmatrix}$	1865. Oct. 3 S.	α Pegasi . . π Piscium . .	$\begin{smallmatrix} s. \\ 40.41 \\ 40.29^* \end{smallmatrix}$	1865. Oct. 13 M.	α Lyræ . . γ Aquilæ . . α Aquilæ . . β Aquilæ . . α Aquarii . . α Piscis Aus. . α Pegasi . . α Andromedæ . γ Pegasi . .	$\begin{smallmatrix} s. \\ 32.85 \\ 32.80 \\ 32.87 \\ 32.72 \\ 32.77 \\ 32.67 \\ 32.64 \\ 32.62 \\ 32.55 \end{smallmatrix}$
Sept. 26 M.	γ Aquilæ . . α Aquilæ . . β Aquilæ . . α^1 Capricorni . α^2 Capricorni . α Cygni . .	$\begin{smallmatrix} 48.20 \\ 48.23 \\ 48.22 \\ 48.18 \\ 48.13 \\ 48.27 \end{smallmatrix}$	Oct. 5 S.	ε Delphini . . λ Cygni . . 32 Vulpeculæ	$\begin{smallmatrix} 38.49^{**} \\ 38.59^{**} \\ 38.57^* \end{smallmatrix}$	Oct. 16 M.	α Aquarii . . α Piscis Aus. . α Pegasi . . α Andromedæ . γ Pegasi . .	$\begin{smallmatrix} 30.97 \\ 30.86 \\ 30.96 \\ 30.91 \\ 30.94 \end{smallmatrix}$
Sept. 27 M.	α Ophiuchi . . α Lyræ . . γ Aquilæ . . α Aquilæ . . β Aquilæ . . α^1 Capricorni . α^2 Capricorni . α Aquarii . . α Piscis Aus. . α Pegasi . . α Andromedæ . γ Pegasi . .	$\begin{smallmatrix} 47.04 \\ 46.89 \\ 46.83 \\ 46.85 \\ 46.82 \\ 46.80 \\ 46.81 \\ 46.56 \\ 46.58 \\ 46.63 \\ 46.48 \\ 46.63 \end{smallmatrix}$	Oct. 6 M.	α Lyræ . . α^2 Capricorni . α Aquarii . . α Piscis Aus. . α Pegasi . . α Andromedæ . γ Pegasi . .	$\begin{smallmatrix} 37.97 \\ 37.80 \\ 37.95 \\ 37.74 \\ 37.72 \\ 37.83 \\ 37.75 \end{smallmatrix}$	Oct. 17 S.	α Lyræ . . γ Aquilæ . . α Piscis Aus. . α Pegasi . . γ Pegasi . .	$\begin{smallmatrix} 30.55 \\ 30.53 \\ 30.39 \\ 30.49 \\ 30.26 \end{smallmatrix}$
Sept. 29 M.	γ Aquilæ . . α Aquilæ . . β Aquilæ . . α^1 Capricorni . α^2 Capricorni . α Piscis Aus. . α Pegasi . . α Andromedæ . γ Pegasi . .	$\begin{smallmatrix} 44.36 \\ 44.42 \\ 44.33 \\ 44.22 \\ 44.29 \\ 44.25 \\ 44.18 \\ 44.17 \\ 44.18 \end{smallmatrix}$	Oct. 7 S.	α Aquarii . . α Piscis Aus. . α Pegasi . . α Andromedæ . γ Pegasi . .	$\begin{smallmatrix} 37.04 \\ 36.97 \\ 36.82 \\ 36.93 \\ 37.11 \end{smallmatrix}$	Oct. 19 S.	γ Aquilæ . . ζ Cygni . .	$\begin{smallmatrix} 29.05 \\ 28.99^* \end{smallmatrix}$
Sept. 30 S.	α Lyræ . . α Aquarii . . α Pegasi . . α Andromedæ . γ Pegasi . . θ Ceti . .	$\begin{smallmatrix} 43.41 \\ 43.29 \\ 43.30 \\ 43.27 \\ 43.30 \\ 43.13^* \end{smallmatrix}$	Oct. 9 M.	α Lyræ . . γ Aquilæ . . β Aquilæ . . α^1 Capricorni . α^2 Capricorni . α Aquarii . . α Piscis Aus. .	$\begin{smallmatrix} 35.51 \\ 35.36 \\ 35.37 \\ 35.36 \\ 35.34 \\ 35.27 \\ 35.23 \end{smallmatrix}$	Oct. 20 S.	α Lyræ . .	28.46
Oct. 3 M.	α Herculis . .	40.58	Oct. 10 S.	α Lyræ . . ε Pegasi . . α Aquarii . .	$\begin{smallmatrix} 34.59 \\ 34.47^* \\ 34.50 \end{smallmatrix}$	Oct. 23 M.	α Lyræ . . α Aquilæ . . β Aquilæ . . α^1 Capricorni . α^2 Capricorni . α Aquarii . . α Piscis Aus. . α Pegasi . . α Andromedæ . γ Pegasi . .	$\begin{smallmatrix} 26.47 \\ 26.45 \\ 26.40 \\ 26.31 \\ 26.31 \\ 26.43 \\ 26.36 \\ 26.33 \\ 26.37 \\ 26.48 \end{smallmatrix}$
Oct. 3 S.	α Lyræ . . α^1 Capricorni . α^2 Capricorni . α Piscis Aus. .	$\begin{smallmatrix} 40.47 \\ 40.36 \\ 40.34 \\ 40.25 \end{smallmatrix}$	Oct. 10 M.	γ Aquilæ . . α Aquilæ . . β Aquilæ . .	$\begin{smallmatrix} 34.56 \\ 34.62 \\ 34.59 \end{smallmatrix}$	Oct. 24 S.	α Piscis Aus. . α Pegasi . . α Andromedæ . γ Pegasi . .	$\begin{smallmatrix} 26.08 \\ 26.00 \\ 26.11 \\ 26.07 \end{smallmatrix}$
			Oct. 11 M.	γ Aquilæ . . α Aquilæ . . β Aquilæ . . α Aquarii . . α Piscis Aus. . α Pegasi . .	$\begin{smallmatrix} 34.04 \\ 34.22 \\ 34.05 \\ 33.95 \\ 34.03 \\ 34.07 \end{smallmatrix}$	Oct. 25 M.	α Lyræ . . γ Aquilæ . . α Aquilæ . .	$\begin{smallmatrix} 25.92 \\ 25.83 \\ 25.91 \end{smallmatrix}$
			Oct. 12 M.	α Aquarii . . α Piscis Aus. . α Pegasi . .	$\begin{smallmatrix} 33.22 \\ 33.34 \\ 33.44 \end{smallmatrix}$			
Sept. 27	$n = +0.281$	$c = -0.275$	Oct. 5	$n = +0.365$	$c = -0.275$			
28-30	$+0.207$	-0.275	6-20	$+0.334$	$+0.234$			
Oct. 2-3	$+0.255$	-0.275	Oct. 23-Nov. 11	$+0.332$	-0.246			

Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$	Date.	Name of Star.	Value of $\Delta t + m$
1865. Oct. 25 M.	β Aquilæ . . α^1 Capricorni α^2 Capricorni α Aquarii . . α Piscis Aus.. α Pegasi . . α Andromedæ γ Pegasi . .	^{s.} 25.87 25.82 25.83 25.83 25.74 25.87 25.90 25.81	1865. Nov. 14 M.	γ Pegasi . . θ Ceti . . . η Piscium . .	^{s.} 9.60 9.46* 9.44*	1865. Dec. 6 S.	α Cygni . . . α Andromedæ γ Pegasi . . .	^{s.} 49.34 49.24 49.21
Oct. 26 S.	γ Aquilæ . . β Aquilæ . .	24.95 25.01	Nov. 15 S.	α Cygni . . . 32 Vulpeculæ ζ Cygni . . . α Pegasi . . . γ Pegasi . . .	8.67 8.72* 8.78* 8.80 8.80	Dec. 8 S.	ϵ Pegasi . . . 16 Pegasi . . . α Andromedæ γ Pegasi . . .	44.24* 44.18* 44.11 44.13
Oct. 30 M.	α Lyræ . . . γ Aquilæ . . β Aquilæ . . α^1 Capricorni α^2 Capricorni α Aquarii . . α Piscis Aus.. α Pegasi . . . α Andromedæ γ Pegasi . . .	22.07 22.09 22.13 21.96 22.15 22.02 21.93 21.99 22.03 22.08	Nov. 16 M.	ζ Cygni . . . α Aquarii . . . α Andromedæ γ Pegasi . . .	8.05* 8.08 8.07 8.05	Dec. 11 S.	α Andromedæ γ Pegasi . . .	49.20 49.14
Nov. 1 S.	γ Aquilæ . . α^2 Capricorni α Andromedæ α Arietis . .	21.05 21.00 20.92 20.91	Nov. 16 S.	θ Aquarii . . η Aquarii . . α Piscis Aus..	7.85* 7.82* 7.79	Dec. 21 M.	α Piscis Aus.. α Pegasi . . . α Andromedæ γ Pegasi . . . α Virginis . .	36.06 35.99 36.06 35.98 35.87
Nov. 7 S.	γ Aquilæ . . β Aquilæ . . α^2 Capricorni γ Pegasi . .	15.90 15.86 15.86 15.43	Nov. 17 M.	α Piscis Aus.. α Pegasi . . . α Virginis . .	7.05 7.06 6.40	Dec. 22 M.	α Piscis Aus.. α Pegasi . . . γ Pegasi . . . α Arietis . . . α Virginis . .	35.93 35.95 36.00 36.02 35.74
Nov. 9 S.	α Piscis Aus.. α Pegasi . . .	13.68 13.77	Nov. 18 S.	γ Aquilæ . . α Aquilæ . .	6.06 6.14	Dec. 23 M.	α Piscis Aus.. α Pegasi . . . α Andromedæ γ Pegasi . . . α Arietis . . .	35.52 35.56 35.63 35.63 35.74
Nov. 11 M.	γ Aquilæ . . α Aquilæ . . β Aquilæ . . α Piscis Aus.. α Pegasi . . . γ Pegasi . . .	12.00 12.20 12.12 12.17 12.36 12.16	Nov. 27 M.	η Piscium . . α Virginis . . α Bootis . . .	56.17* 55.91 55.83	Dec. 25 M.	α Arietis . . . α Ceti α Virginis . . α Bootis . . .	33.66 33.71 33.83 33.88
Nov. 14 M.	α Cygni . . . α Piscis Aus.. α Pegasi . . . α Andromedæ	9.52 9.55 9.56 9.55	Nov. 28 M.	α Cygni . . . α Aquarii . . α Arietis . . .	55.85 55.78 55.82	Dec. 29 M.	α Andromedæ γ Pegasi . . . α Arietis . . . α Ceti	32.74 32.85 32.88 32.83
			Dec. 1 M.	α Aquarii . . α Piscis Aus.. α Pegasi . . . α Andromedæ γ Pegasi . . . α Arietis . . . ξ^2 Ceti . . .	53.76 53.76 53.76 53.83 53.76 53.82 53.69*	1866. Jan. 4 S.	α Andromedæ ϵ Piscium . .	25.51 25.60*
			Dec. 2 S.	α Piscis Aus.. α Pegasi . . .	52.73 52.83	M.	α Virginis . .	24.50
			Dec. 5 S.	α Andromedæ γ Pegasi . . .	50.63 50.63			
Nov. 14-15 16 17-18	$n = +$ ^{s.} $+ 0.350$ $+ 0.250$ $+ 0.200$	$c = +$ ^{s.} $+ 0.320$ $+ 0.320$ $- 0.350$	Nov. 27-Dec. 6 Dec. 21-23 25-Jan. 4, 1866	$n = +$ ^{s.} $+ 0.270$ $+ 0.350$ $+ 0.210$	$c = -$ ^{s.} $- 0.350$ $- 0.350$ $- 0.460$			

MEAN VALUES OF CLOCK CORRECTIONS.

Date.	Observer.	Sidereal Hour.	Mean $At+m$.	No. Stars.	Date.	Observer.	Sidereal Hour.	Mean $At+m$.	No. Stars.	Date.	Observer.	Sidereal Hour.	Mean $At+m$.	No. Stars.
1862.		<i>h. m.</i>	<i>s.</i>		1862.		<i>h. m.</i>	<i>s.</i>		1862.		<i>h. m.</i>	<i>s.</i>	
March 11	H.	7. 8	5.005	2	July 3	H.	15.49	21.557	3	Sept. 25		20.43	47.925	2
24	S.	5.12	32.535	2	18	S.	15.11	45.010	4	27	S.	18. 6	43.16	1
		7.31	32.220	3			19.51	44.468	4	29	S.	19.36	38.848	4
26	S.	5.54	27.297	3	22	S.	16.25	34.422	5			0. 4	38.535	2
		12.14	26.623	3	26	S.	19.10	23.268	4	Oct. 5	S.	4.54	24.550	3
27	H.	9.39	24.370	4	28	S.	14. 9	18.980	1			7. 0	24.146	5
28	S.	5.10	22.102	4	Aug. 1	S.	16.28	5.897	3			10.27	23.820	3
		8. 9	21.887	3	6	S.	16.16	51.923	3	6	S.	17.21	23.215	2
29	H.	9.41	19.280	2			19.15	51.390	2	7	S.	20. 5	21.184	5
		11.42	19.030	2	11	S.	17.18	37.360	2			7.18	20.158	4
April 4	H.	4.28	4.960	1			19.44	37.090	2	8	S.	19.52	19.210	4
		10.22	4.515	4	16	S.	17.29	24.600	1	9	S.	18.32	17.410	1
7	S.	8.48	56.147	3	20	S.	14. 9	15.690	1	14	S.	11.42	3.200	1
		12. 0	55.870	3			19.44	15.140	2	16	S.	17.18	59.570	2
12	H.	10.48	43.705	4	21	S.	14.52	13.167	3	18	S.	18.53	54.258	4
16	H.	11.41	34.945	4			19.57	12.640	4	30	S.	22.54	22.090	2
18	H.	10.31	30.525	4	29	S.	14. 9	53.650	1	Nov. 1	S.	19.44	17.470	1
19	S.	10.11	28.352	4			18.45	53.100	1	3	S.	20.18	13.175	4
23	S.	11.43	17.340	1	Sept. 2	S.	17.29	44.280	1			0. 4	12.940	2
24	S.	11.42	14.450	2			20. 0	43.937	3	4	S.	21.57	10.486	5
	H.	13.11	14.340	3	4	S.	18.52	39.217	3	10	S.	0.22	52.900	3
25	S.	10.52	12.587	3			22.36	38.833	3			14. 9	51.420	1
26	H.	11.40	9.922	4	8	S.	17.22	30.563	3	13	S.	19.58	45.812	4
29	S.	12.41	2.753	3			20.41	30.140	2	Dec. 6	S.	21.42	38.855	2
30	H.	11.51	0.745	4	9	S.	17.11	27.955	2	8	S.	1.20	32.870	4
May 7	S.	12. 0	44.180	4	10	S.	16.16	25.607	3	10	S.	1.47	27.322	4
14	H.	7.31	28.873	3			21.17	25.018	4			13.20	25.970	3
		14.40	28.002	6	11	S.	17.18	23.125	2	11	S.	22.36	25.167	3
15	S.	11.42	25.830	2			19.57	22.798	4			4.24	24.555	2
17	S.	14.15	21.280	3	15	S.	17.18	13.900	2	12	S.	22.54	23.005	2
23	S.	11.40	7.115	2	16	S.	17.39	11.672	4	16	S.	0.46	11.855	2
		15.10	6.777	6	17	S.	17.18	9.630	2			2. 2	11.880	3
28	H.	14. 8	54.907	3			6.13	8.365	2	20	S.	22.58	1.230	1
June 5	H.	13.51	34.495	2	18	S.	17.25	7.460	2			3. 4	1.060	3
11	H.	14.48	18.792	4	21	S.	8.20	56.415	2	24	S.	1.24	50.500	1
16	S.	13.44	5.715	2	22	S.	16.36	55.090	1	27	S.	1.53	42.645	2
		15.49	5.477	3	23	S.	17.18	52.660	2	28	S.	0. 4	39.990	2
17	H.	13.44	3.475	2			23.11	52.060	5			12.15	38.413	3
		15. 8	3.355	4	25	S.	17.43	48.183	3	29	S.	23.32	37.585	2

Date.	Observer.	Sidereal Hour.	Mean $\Delta t + m$.	No. Stars.	Date.	Observer.	Sidereal Hour.	Mean $\Delta t + m$.	No. Stars.	Date.	Observer.	Sidereal Hour.	Mean $\Delta t + m$.	No. Stars.
1863.		<i>h. m.</i>	<i>s.</i>		1863.		<i>h. m.</i>	<i>s.</i>		1863.		<i>h. m.</i>	<i>s.</i>	
Jan. 1	S.	22.54	30.680	2	May 27	S.	19.19	47.71	1	Sept. 28	S.	20.19	15.650	3
2	S.	0. 4	27.995	2	June 1	S.	12.55	36.37	1			23.53	15.053	3
3	S.	0. 4	25.805	2	2	S.	14.49	33.745	2	29	S.	22.58	11.570	4
5	S.	0.37	20.620	1	3	S.	14.43	30.960	1	30	S.	17.47	8.945	2
		4. 4	20.350	2	4	S.	15.10	27.850	1			0. 0	7.920	3
16	S.	18.32	52.040	1	5	S.	20.58	24.235	2	Oct. 1	S.	19.33	4.955	2
17	S.	23.42	51.463	3	11	S.	13.28	10.000	1	22	S.	23. 7	48.407	3
19	S.	0.56	46.000	1	17	S.	17.29	50.310	1	23	S.	19.40	44.990	1
		4.57	45.695	2	23	S.	21.13	32.550	2	28	S.	21.32	27.310	4
30	S.	1.59	20.420	1	27	S.	15.14	22.060	2			1.26	26.600	2
31	S.	5. 7	17.700	2	29	S.	21.47	16.240	1	29	S.	21.35	23.870	3
Feb. 2	S.	2.55	13.150	1	30	S.	22.58	13.820	1	Nov. 2	S.	23.43	10.212	4
		5.52	12.897	3	July 11	S.	16.59	44.270	3	3	S.	0.23	6.998	5
7	S.	2.55	59.710	1	20	S.	15.52	18.185	2	4	S.	21.15	3.892	4
		8.29	59.443	3	21	S.	0. 4	13.965	2			1.54	3.343	3
10	S.	1.59	54.220	1	22	S.	15.45	12.045	2	19	S.	20.58	23.820	2
14	S.	3.52	45.513	3			0. 4	10.955	2			13.18	21.860	1
16	S.	2.26	41.373	3	23	S.	19. 2	8.600	2	22	S.	13.18	12.680	1
		7.32	41.000	1	24	S.	18.32	5.840	1	23	S.	3.29	11.143	3
17	S.	3.52	39.210	1	29	S.	20.46	53.673	3	25	S.	21.48	6.560	3
18	S.	1.59	37.450	1	31	S.	18.59	48.740	3	26	S.	23.56	3.407	3
20	S.	6.20	33.717	3	Aug. 3	S.	18.44	41.688	4	30	S.	1.11	58.290	2
		15.33	32.890	2	4	S.	20.10	39.245	2			13.18	56.370	1
21	S.	7.31	31.825	2	6	S.	0. 4	33.755	2	Dec. 1	S.	21.20	55.337	3
23	S.	2.21	27.610	2	10	S.	17.29	52.370	1	6	S.	13.44	38.755	2
		6.23	27.395	2			0. 6	51.880	1	7	S.	23.27	37.790	2
25	S.	9.29	23.415	2	12	S.	17.29	47.190	1	9	S.	0.51	32.193	3
March 2	S.	5. 7	14.070	2			20.29	46.880	4	10	S.	23. 3	29.307	3
		8. 8	13.967	3	14	S.	20.11	40.710	5	15	S.	22.54	15.620	2
5	S.	7.11	4.985	4	15	S.	18.13	38.240	2			3.43	15.090	4
6	S.	11. 8	1.410	4	17	S.	19.53	31.773	3	21	S.	1.27	55.620	2
9	S.	6.34	52.452	5	18	S.	20.19	28.834	5			3.41	55.260	2
		10.50	51.850	2	19	S.	19.53	26.243	3	22	S.	2.29	52.450	2
11	S.	7.43	46.766	5	22	S.	18.20	18.205	2	23	S.	22.54	49.930	2
23	S.	7.55	4.320	1	24	S.	16.15	13.363	3			2.10	49.385	2
27	S.	9.21	51.960	1	30	S.	0. 4	53.785	2	26	S.	0. 4	39.975	2
30	S.	9. 0	42.600	2	31	S.	19.23	51.220	2			3.59	39.487	3
April 1	S.	9. 4	36.207	3	Sept. 2	S.	19. 3	44.535	2	29	S.	1.37	29.748	4
6	S.	7.37	19.760	1	4	S.	21.33	37.280	2			5.20	29.300	5
9	S.	8.40	11.570	3	5	S.	19.12	34.425	2	30	S.	1.42	27.010	2
		12.15	11.147	3	7	S.	20.37	27.900	1			3. 6	26.685	2
18	S.	10. 7	44.970	2	9	S.	0.55	20.983	3					
21	S.	8. 0	35.420	2	10	S.	18.59	17.820	1					
22	S.	11.12	32.115	2			2.21	16.710	1					
23	S.	9.21	29.510	1	14	S.	20.37	3.610	1					
27	S.	6.39	17.180	1	15	S.	19.59	0.650	4					
May 1	S.	13.18	4.830	1	16	S.	2. 0	56.940	1					
2	S.	10.12	2.790	1	17	S.	21.38	54.453	3					
9	S.	12. 8	40.885	2	20	S.	10. 1	42.490	1					
15	S.	14.59	21.630	1	21	S.	19.17	41.115	2					
18	S.	15.38	12.350	1	22	S.	20.11	37.250	3					
19	S.	12. 5	10.060	3			23.14	36.670	3					
23	S.	12.57	0.890	2	23	S.	20.10	33.798	4					
25	S.	14.48	54.553	3	24	S.	23.39	29.330	3					

Date.	Observer.	Sidereal Hour.	Mean $\Delta t + m$.	No. Stars.	Date.	Observer.	Sidereal Hour.	Mean $\Delta t + m$.	No. Stars.	Date.	Observer.	Sidereal Hour.	Mean $\Delta t + m$.	No. Stars.
1864.		<i>h. m.</i>	<i>s.</i>		1864.		<i>h. m.</i>	<i>s.</i>		1864.		<i>h. m.</i>	<i>s.</i>	
Jan. 1	S.	1.21	20.225	2	March 24	S.	7.32	21.333	3	June 10	S.	14.13	1.505	4
2	S.	22.58	16.800	1		R.	9.18	21.210	2		M.	16.45	1.355	2
		2.27	7.175	2		S.	11.43	20.985	2	13	S.	12.30	56.840	2
6	S.	0.40	4.412	4	April 7	R.	8.39	51.725	4		S.	15. 8	56.700	4
8	S.	13.14	55.653	3	8	S.	9.26	49.737	3		R.	16. 2	56.775	2
9	S.	1.16	54.158	4	9	R.	9. 4	48.100	3	14	S.	12.30	55.865	2
10	S.	1. 7	50.850	2		R.	10.50	47.890	2		R.	14.42	55.900	3
11	S.	1.43	46.827	3	15	S.	9.41	34.145	2		S.	16.25	55.742	5
		5. 8	46.525	2	16	R.	9.41	32.180	2		R.	18.45	55.770	1
12	S.	3. 5	44.090	3	21	S.	10. 1	22.240	1	16	S.	14.32	53.470	3
14	S.	0.42	38.517	3		R.	12. 5	22.125	2		S.	16. 9	53.265	4
		7.16	37.750	3	22	S.	14.15	21.833	3	17	S.	14.30	51.980	3
16	S.	0.57	32.397	3		S.	9.21	20.340	1		S.	16.22	51.777	3
		6.35	31.555	2	27	S.	12.15	20.067	3	18	M.	14.13	50.842	4
21	S.	1.24	16.088	4	29	S.	9.29	11.255	2		R.	16. 1	50.745	4
		3.58	15.865	2	30	S.	14.29	7.302	5	19	R.	13.23	49.540	2
25	S.	3. 4	5.340	1	May 2	R.	11.41	5.993	3	21	R.	13.55	46.840	1
		6.23	5.063	3	3	S.	7.31	2.300	2		S.	15. 8	46.750	4
27	S.	0. 4	0.615	2		S.	8.50	0.360	3		S.	17.23	46.620	4
		7.18	59.950	4	4	S.	14.13	59.932	4	22	R.	15.17	45.490	3
Feb. 4	S.	1.24	39.520	1		S.	10. 7	58.420	2		R.	17.19	45.425	2
5	S.	1. 0	36.870	2	5	S.	13.36	58.100	2	23	R.	13.18	44.380	1
		5.54	36.770	2		S.	10. 1	56.530	1		S.	16.21	44.150	2
8	S.	2.21	29.430	1	6	S.	14.32	56.187	3	24	S.	14.32	42.920	3
		6.46	29.035	2		S.	10. 7	55.070	2		M.	15.49	43.087	3
10	S.	2.35	24.247	3	9	S.	12.31	55.005	2		S.	17.29	42.670	1
12	S.	3. 8	19.127	3		R.	12.41	50.680	2	26	R.	16.36	41.000	1
18	S.	5. 8	3.092	4	10	R.	13.51	50.550	2	27	M.	14.33	39.635	2
19	S.	2.36	0.770	1	18	S.	14.58	49.097	3		R.	14.48	39.587	3
		5.28	0.355	2		R.	11.53	35.950	2	28	M.	14.26	37.720	1
23	S.	2.27	49.320	2		R.	13.49	35.735	2		S.	14.46	37.374	5
		7.32	48.947	3	19	S.	14.15	35.683	3		S.	18.32	37.080	1
24	S.	7.32	46.797	3		R.	11.43	34.090	2	29	M.	13.59	36.110	2
25	S.	7.35	44.425	2	22	S.	14.40	33.820	6		S.	14.46	35.758	5
26	S.	7. 6	42.015	2		R.	12. 8	29.825	2	30	S.	15.16	33.987	3
29	S.	5. 7	34.395	2	23	R.	15.11	29.565	6		R.	15.33	34.070	2
March 3	S.	2.27	27.665	2	27	S.	11. 9	28.137	3	July 3	R.	14.48	28.823	3
		7.32	27.180	3		S.	12.31	21.695	2		R.	17.23	28.712	4
7	S.	8.29	16.940	2	28	S.	14.57	21.574	2	4	R.	13.18	27.530	1
8	S.	2. 0	15.170	1		R.	12.54	20.373	3		S.	14.56	27.312	5
9	S.	7.19	12.445	4	29	R.	14.46	20.200	3		S.	16.59	27.183	3
12	S.	5.11	5.410	3	31	R.	14.40	18.367	6	5	S.	15. 8	25.842	4
		9.16	5.030	2	June 2	S.	14.55	15.600	5		S.	19. 6	25.570	2
14	S.	4.28	0.350	1		R.	13.13	12.790	4	6	S.	11.42	24.500	1
		9.57	59.805	2	3	S.	15. 3	12.575	4		R.	15.33	24.375	2
16	S.	9.21	55.400	1	4	S.	2. 0	10.620	1	8	S.	14. 1	21.170	2
17	S.	5.28	53.385	2	6	S.	15. 8	10.025	4		S.	15.49	20.943	3
	R.	9.11	53.060	1		S.	15.21	7.542	4	9	S.	14.47	19.325	4
19	S.	6.14	48.580	2	7	R.	20. 9	7.313	3		S.	19.40	19.040	1
	R.	7.31	48.545	2		R.	12.30	6.300	2	10	R.	16.44	17.945	2
	R.	9.21	48.550	1	8	S.	14.35	6.280	4	12	S.	14.47	15.828	4
21	S.	6.46	27.215	2		S.	15.49	6.130	3		R.	16.59	15.763	3
	R.	7.58	27.248	4		S.	14.15	4.837	3		R.	18.42	15.620	2
	S.	9.46	27.035	2		R.	15.49	4.779	3	13	S.	16.46	14.378	6

Date.	Observer.	Sidereal Hour.	Mean $\Delta t + m$.	No. Stars.	Date.	Observer.	Sidereal Hour.	Mean $\Delta t + m$.	No. Stars.	Date.	Observer.	Sidereal Hour.	Mean $\Delta t + m$.	No. Stars.
1864.		<i>h. m.</i>	<i>s.</i>		1864.		<i>h. m.</i>	<i>s.</i>		1864.		<i>h. m.</i>	<i>s.</i>	
July 13	S.	5.38	13.367	3	Oct. 18	S.	21.16	38.395	2	Dec. 20	S.	0. 4	42.160	3
14	S.	14.48	12.983	3	19	S.	19.33	37.040	4		M.	1.54	42.272	4
	S.	17.50	12.807	3	21	S.	19.57	32.690	4	30	M.	23.42	22.210	3
15	S.	16.25	11.386	5		S.	22.54	32.455	2		M.	2.43	22.140	3
16	R.	17.28	9.928	4	24	S.	18.39	26.390	2					
18	R.	17.43	7.012	4	25	S.	19.50	24.683	6					
19	S.	14.26	5.745	2		S.	23.29	24.448	4					
	R.	17.39	5.624	5	26	S.	19.40	23.382	5	1865.				
20	S.	18.46	4.180	5		S.	0. 6	23.175	4	Jan. 2	M.	5.20	36.812	4
22	S.	16.26	0.845	4	Nov. 1	S.	20.19	14.040	3	3	M.	0. 4	35.655	2
23	R.	17.43	59.233	3		S.	1.38	13.800	2		S.	1.17	35.492	4
26	S.	14.59	55.310	5	2	S.	19.58	12.995	4	4	M.	4. 0	33.907	3
	S.	19.41	54.995	6		S.	1. 7	12.845	2		M.	5.20	34.060	4
27	S.	16.36	54.105	2	3	S.	20. 6	12.036	5	11	M.	23.42	23.680	3
28	S.	19.12	52.536	5	4	S.	22. 8	10.417	3		M.	5.26	23.692	5
29	S.	19.40	51.063	7		S.	0. 4	10.370	2		S.	1.41	23.525	2
30	S.	17.43	49.693	3	10	S.	20.29	0.730	2	12	S.	3. 7	22.867	3
Aug. 1	S.	16.22	47.220	3		M.	22.41	0.700	4		M.	3.59	22.902	4
	S.	19.50	47.048	6	11	S.	1.49	0.270	5	13	M.	2.46	22.030	2
5	S.	15.59	40.335	2		S.	21.16	58.405	2		M.	4.54	22.167	3
8	S.	17.23	36.188	4		M.	22.31	58.408	6	16	M.	1.13	17.980	3
	S.	19.57	36.002	4		S.	2.10	57.913	3		S.	1.39	17.850	3
Sept. 2	S.	19.41	59.320	6	14	S.	23.39	51.617	6		M.	6. 7	17.892	9
6	S.	17.27	52.745	2	16	S.	20. 3	48.147	3	18	M.	0. 4	15.730	2
	S.	19.57	52.622	4		M.	0.39	47.657	3		S.	1.50	15.395	4
7	S.	16.21	51.020	1		S.	1.21	47.535	2		M.	5.10	15.556	5
	S.	21.48	50.553	3	19	M.	2.27	47.495	2	20	M.	1.38	12.773	3
9	S.	19.34	47.100	4		S.	20.47	42.796	5		M.	5.25	12.756	6
10	S.	17.21	45.563	3		M.	1. 7	42.602	4	24	S.	2.27	5.630	2
	S.	22.54	45.235	2		S.	3. 5	42.340	3		M.	4.54	5.690	3
15	S.	15.29	35.320	1	21	S.	14. 9	37.140	1		S.	6.14	5.375	2
	S.	21.24	34.850	1	22	S.	21.18	36.728	4	25	M.	1.28	4.620	3
16	S.	18.32	33.130	4	23	S.	0.22	34.937	3		M.	5.25	4.702	6
	S.	21.32	32.755	4		M.	2.19	35.000	3	26	S.	2. 3	3.387	3
17	S.	18.34	31.123	3	25	S.	3.45	34.860	4		S.	5. 0	3.347	4
	S.	22.36	30.843	3		S.	19.44	31.157	3	27	M.	2.14	1.980	3
22	S.	18. 1	22.950	2		S.	23.18	31.000	2		M.	5.25	1.908	6
26	S.	18.39	14.710	2		M.	1.47	31.050	2	28	S.	2.27	0.850	2
	S.	22.57	14.360	4	29	M.	4.13	30.950	2		S.	5. 4	1.003	3
27	S.	19.26	13.020	4		S.	22.47	23.623	3		S.	5.21	0.790	2
	S.	22.54	12.745	2	30	M.	0.30	23.590	3	30	M.	2.18	58.925	2
29	S.	21.53	9.150	2		M.	23.10	22.152	5		M.	6.13	58.851	8
30	S.	23.18	7.570	3	Dec. 1	M.	2.52	21.820	3	Feb. 1	S.	3.59	56.432	4
Oct. 4	S.	18.32	59.170	1		S.	22.58	20.062	4		M.	5.22	56.630	5
5	S.	19.25	57.512	4	5	M.	0. 4	12.770	2		M.	7.19	56.437	4
7	S.	18.52	53.710	4	8	S.	20.10	7.945	2		S.	7.59	56.110	2
	S.	23.22	53.442	5		M.	22.36	7.953	3	2	S.	4.11	54.547	4
8	S.	18. 1	51.970	2		S.	0.42	7.623	3		M.	5.46	54.470	3
10	S.	21. 8	49.258	4	9	S.	22.36	5.583	3		S.	7.19	54.167	4
	S.	1.47	48.977	3		M.	0. 4	5.715	2	3	M.	5.11	52.950	3
11	S.	22.36	47.833	3		M.	2.10	5.670	2	9	S.	2.27	52.905	2
	S.	0.21	47.830	3	13	S.	20.37	55.840	1		M.	4.32	43.153	3
17	S.	19.20	39.990	3	14	S.	2. 4	54.547	3		S.	6.28	42.873	7
	S.	23.39	39.692	6	20	S.	20.37	42.360	1	11	S.	2.27	40.090	2

Date.	Observer.	Sidereal Hour.	Mean $\Delta t + m$.	No. Stars.	Date.	Observer.	Sidereal Hour.	Mean $\Delta t + m$.	No. Stars.	Date.	Observer.	Sidereal Hour.	Mean $\Delta t + m$.	No. Stars.
1865.		<i>h. m.</i>	<i>s.</i>		1865.		<i>h. m.</i>	<i>s.</i>		1865.		<i>h. m.</i>	<i>s.</i>	
Feb. 11	S.	5.10	40.106	5	April 4	S.	12.27	41.430	1	May 26	M.	9.12	56.148	5
13	M.	3.42	35.830	2	5	M.	5.20	41.155	4		S.	13.11	56.135	2
	M.	5.20	35.945	4		S.	7.35	40.890	2		M.	14.32	56.153	3
14	S.	2.27	35.090	2		M.	10.42	40.708	4	30	S.	14.33	52.120	4
	M.	5.41	35.285	4	8	S.	5.12	38.875	2	31	S.	13.23	51.430	2
	S.	7.35	34.970	2		M.	10.30	38.772	4	June 1	S.	14.14	50.592	4
21	S.	2.27	22.845	2		S.	11.58	38.525	2	2	S.	12.51	49.817	3
	S.	5.21	22.713	3	11	S.	10. 7	36.743	3		S.	14.32	49.770	3
	M.	6.47	22.780	3	12	M.	10.48	35.892	4	3	S.	12.33	48.980	3
	S.	7.32	22.587	3	13	M.	5.36	34.468	5		S.	15. 8	48.915	4
22	M.	5.48	21.880	1		M.	8.35	34.278	4	5	S.	14. 2	47.893	3
24	M.	4.23	19.285	4		M.	12.15	34.057	3	6	S.	10. 1	46.930	1
	M.	7. 0	19.262	5	14	S.	6.14	33.005	2		S.	14.28	46.667	3
25	S.	3. 8	18.016	3		S.	9.41	32.840	2	7	S.	12.51	45.790	3
	S.	6. 5	17.935	4		S.	12.22	32.833	3	8	S.	12. 7	44.867	3
27	M.	1.59	14.590	1	17	S.	5. 7	30.170	1	12	S.	15. 5	40.813	3
	M.	5.11	14.640	3		M.	5.43	30.198	4	13	S.	10. 1	40.140	1
March 4	S.	7.19	9.998	4		M.	7.59	30.180	4		S.	14.57	40.106	5
	S.	9.57	9.925	2		M.	11. 9	30.090	3	19	M.	10. 1	35.150	1
6	M.	4.24	6.350	2		S.	12.54	29.923	3		M.	14.14	34.997	4
	S.	5. 7	6.370	2		M.	18.45	29.740	1	20	M.	10. 1	33.840	1
	M.	7.42	6.396	5	18	S.	7.37	28.900	1		S.	13.44	33.740	2
7	S.	5. 7	5.575	2		S.	12.15	28.733	3	21	M.	14.48	33.145	4
8	M.	8.32	4.860	2	19	M.	6.28	28.216	7	23	M.	14.14	31.447	4
10	M.	8.56	2.840	2		S.	9.42	28.035	2		M.	17.19	31.350	2
	M.	10.34	2.760	3		M.	10.56	28.047	3	24	M.	13.44	30.630	2
13	M.	5. 0	0.282	4	24	M.	5.43	22.275	4		S.	15. 8	30.482	4
	M.	7.19	0.225	4		M.	8. 9	22.363	4	27	M.	12.30	29.440	3
16	M.	5.11	58.230	3		M.	12.22	22.237	3		M.	15.43	29.306	5
17	M.	5. 0	57.052	4	25	M.	6.14	21.485	2	28	S.	14.57	28.016	5
	M.	7.16	57.007	3		M.	8.23	21.398	5	29	S.	14.14	27.175	4
	M.	9.52	56.837	3		M.	12.15	21.410	3		S.	15.49	27.093	3
18	M.	5.54	56.235	2	26	M.	6.14	20.905	2	July 3	M.	14.14	13.132	4
	S.	7.16	55.917	3		M.	7.32	20.857	3		M.	16. 9	13.097	4
	M.	8.32	56.035	2		M.	9.41	20.795	2	5	M.	11.40	36.835	2
20	M.	5.10	54.508	5	May 3	M.	10.52	15.195	2		S.	16.25	36.602	5
	M.	18. 1	54.165	2		M.	13.44	15.170	2	8	S.	13.44	35.855	2
21	S.	5.11	53.840	3	10	S.	7.29	9.490	2		M.	15.52	35.928	5
23	S.	9.41	51.290	2		S.	11. 9	9.293	3	10	M.	15.33	35.185	2
25	S.	8. 0	49.125	2	12	M.	13.18	7.590	1	11	S.	15.49	34.640	3
	M.	8. 8	49.160	2	13	M.	7.29	7.095	2	12	M.	15.38	34.530	1
	S.	11. 9	48.973	3		S.	7.37	7.070	1	13	S.	14. 1	34.015	2
27	M.	5.20	47.407	4		S.	12.31	6.810	2		S.	15.49	33.943	3
	M.	7.32	47.377	3	15	M.	8.23	5.626	5	14	M.	14.47	33.430	4
	M.	10.22	47.212	4		M.	13.23	5.430	6		M.	16.59	33.363	3
28	M.	5.48	46.760	1	17	M.	7.32	4.397	3	15	M.	16.25	32.924	5
	M.	8.23	46.704	5	18	S.	12.15	3.220	3	17	M.	17.29	31.825	6
April 1	S.	5.48	43.480	1		S.	15. 0	3.060	4	18	S.	13.18	31.170	1
3	M.	5.23	42.143	6	23	M.	12.32	59.407	3		M.	16.25	31.262	5
	S.	7.32	42.127	3		S.	13.11	59.245	2	20	M.	13.18	30.420	1
	M.	9.41	42.295	2	24	S.	11. 9	58.263	3		S.	16.46	30.340	6
4	S.	6.14	41.570	2		S.	13.44	58.140	2	21	M.	14.48	30.083	3
	S.	7.35	41.530	2	25	M.	11. 9	57.093	3	22	S.	13.44	29.535	2
	M.	8.11	41.553	3		M.	14.14	56.992	4		M.	15.33	29.680	4

Date.	Observer.	Sidereal Hour.	Mean $\Delta t + m$.	No. Stars.	Date.	Observer.	Sidereal Hour.	Mean $\Delta t + m$.	No. Stars.	Date.	Observer.	Sidereal Hour.	Mean $\Delta t + m$.	No. Stars.
1865.		<i>h. m.</i>	<i>s.</i>		1865.		<i>h. m.</i>	<i>s.</i>		1865.		<i>h. m.</i>	<i>s.</i>	
July 22	S.	17.43	29.603	3	Sept. 12	M.	22.54	0.085	2	Oct. 26	S.	19.44	24.980	2
24	M.	14.39	28.968	4	13	M.	19.41	59.470	6	30	M.	19.40	22.080	5
	M.	19. 3	28.932	5		M.	23.11	59.298	5		M.	23.11	22.010	5
26	M.	15.59	28.485	2	14	S.	20. 0	58.503	3	Nov. 1	S.	22.28	20.970	4
	M.	18.44	28.545	6	15	M.	20. 1	58.364	7	7	S.	19.53	15.873	3
27	S.	13.44	27.815	2	16	S.	20.13	57.320	4		S.	0. 6	15.430	1
	M.	16.25	27.856	5	19	M.	17.43	55.140	3	9	S.	22.54	13.725	2
	S.	19. 7	27.640	3		M.	20.15	55.035	6	11	M.	19.44	12.107	3
28	M.	16.29	27.517	3	21	S.	20.11	52.990	1		M.	23.18	12.230	3
	M.	19.20	27.560	3	22	M.	18.32	52.690	1	14	M.	22. 8	9.543	3
29	S.	16.55	27.365	2	23	S.	20.42	51.207	3		M.	0.42	9.512	4
31	M.	14.52	26.292	4	25	M.	19.41	49.292	6	15	S.	20.51	8.723	3
	M.	18.12	26.208	4		M.	23.18	49.103	3		S.	23.32	8.800	2
Aug. 1	S.	16.17	25.620	4	26	S.	18.32	48.260	1	16	M.	21.33	8.065	2
2	M.	18.10	25.490	6		M.	20. 2	48.205	6		M.	0. 4	8.060	2
4	M.	18.32	24.856	5		S.	22.50	47.830	3		S.	22.29	7.820	3
8	M.	16.59	23.237	3	27	M.	19.22	46.863	7	17	M.	22.54	7.055	2
	M.	19.44	23.250	3		M.	23.11	46.576	5		M.	13.18	6.400	1
9	M.	19.20	22.647	3	29	M.	19.55	44.324	5	18	S.	19.42	6.100	2
10	M.	13.44	21.880	2		M.	23.29	44.195	4	27	M.	1.24	56.170	1
12	M.	13.18	21.080	1	30	S.	20.16	43.350	2		M.	13.44	55.870	2
	M.	18.32	21.076	5		S.	0. 6	43.250	4	28	M.	21.18	55.815	2
14	M.	13.44	19.720	2	Oct. 3	M.	17. 8	40.580	1		M.	2. 0	55.820	1
	M.	18.31	19.664	5		S.	19.38	40.390	3	Dec. 1	M.	22.36	53.760	3
15	M.	19. 3	19.392	5		S.	23. 3	40.317	3		M.	1. 7	53.775	4
16	M.	17. 8	18.950	1	5	S.	20.39	38.550	3	2	S.	22.54	52.780	2
18	M.	19.26	17.482	4	6	M.	20.14	37.907	3	5	S.	0. 4	50.630	2
19	S.	17.43	16.737	3		M.	23.29	37.760	4	6	S.	22.55	49.263	3
21	M.	15.45	16.000	3	7	S.	23.11	36.974	5	8	S.	21.42	44.210	2
23	M.	19.26	14.268	4	9	M.	19.40	35.388	5		S.	0. 4	44.120	2
24	M.	19.26	12.942	4		M.	22.25	35.250	2	11	S.	0. 4	49.170	2
25	M.	15.23	12.030	2		M.	19.44	34.590	3	21	M.	23.29	36.022	4
	M.	19.26	12.038	4	10	S.	20.43	34.520	3		M.	13.18	35.870	1
26	S.	19. 6	11.250	2	11	M.	19.44	34.103	3	22	M.	23.59	35.975	4
28	M.	18.44	9.902	6		M.	22.36	34.017	3		M.	13.18	35.740	1
29	S.	16.33	9.103	3	12	M.	22.36	33.333	3	23	M.	22.54	35.540	2
31	S.	19.35	7.265	2	13	M.	19.26	32.810	4		M.	0.42	35.667	3
Sept. 2	S.	19.40	6.972	5		M.	23.11	32.650	5	25	M.	2.27	33.685	2
4	M.	18.52	5.890	4	16	M.	23.11	30.928	5		M.	13.44	33.855	2
5	S.	19.57	5.048	4	17	S.	19. 6	30.540	2	29	M.	1.16	32.825	4
6	S.	17.45	4.547	3		S.	23.18	30.380	3					
	M.	19.40	4.514	5	19	S.	20.24	29.020	2					
7	S.	16.21	3.730	1	20	S.	18.32	28.460	1					
	S.	19.40	3.752	4	23	M.	19.41	26.388	5					
9	S.	19.57	2.060	4		M.	23.11	26.394	5	1866.				
11	M.	19.55	0.566	5	24	S.	23.29	26.065	4	Jan. 4	S.	0.29	25.555	2
	M.	22.36	0.527	3	25	M.	19.41	25.863	6		M.	13.18	24.500	1
12	M.	19.49	0.140	7		M.	23.11	25.830	5					

RESULTS. MEAN RIGHT ASCENSIONS FOR 1865.0.

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
PIAZZI. 0.19.			1865 Oct. 23 M. — .14			α PHENICIS. C. des T.		
1865 Sept. 13 M.	^{h.} 0 ^{m.} 8	^{s.} 10.97	30 M.	+	.07	1862 Sept. 23 S.	+	.25
29 M.		10.84	Nov. 11 M.	+	.16	Nov. 10 S.	—	.01
Oct. 13 M.		10.91	14 M.	—	.01	1864 Oct. 7 S.	+	.42
16 M.		10.90	Dec. 1 M.	+	.07	17 S.	+	.59
17 S.		11.01	Mean	+	.046	Nov. 14 S.	+	.59
23 M.		10.81	<i>v. Asten</i>		44.00	19 M.	+	.25
Nov. 11 M.		10.94	Mean A.R. 1865.0			30 M.	+	.02
14 M.		10.89			0 ^h 14 ^m 44 ^s .046	Dec. 8 S.	+	.53
Dec. 1 M.		10.90				Mean		0.33
5 S.		10.98				<i>C. des T.</i>		36.15
1866 Jan. 4 S.		10.88				Mean A.R. 1865.0		
Mean A.R. 1865.0								0 ^h 19 ^m 36 ^s .48
		0 ^h 8 ^m 10 ^s .912	PIAZZI. 0.56.			12 CETI. N.A.		
PIAZZI. 0.38.			1865 Sept. 27 M.	^{h.} 0 ^{m.} 16	^{s.} 13.44	1862 Nov. 3	+	.06
1865 Sept. 13 M.	^{h.} 0 ^{m.} 11	^{s.} 35.72	29 M.		13.38	Dec. 28	—	.02
27 M.		35.44	Oct. 13 M.		13.50	1863 Sept. 24	—	.07
Oct. 13 M.		35.55	16 M.		13.48	29	—	.01
16 M.		35.58	23 M.		13.25	30	—	.00
17 S.		35.79	30 M.		13.42	Nov. 4	—	.08
23 M.		35.46	Nov. 11 M.		13.49	Dec. 26	+	.06
Nov. 14 M.		35.59	14 M.		13.43	1864 Jan. 9	+	.15
Dec. 1 M.		35.55	Dec. 1 M.		13.50	Sept. 30	—	.10
5 S.		35.62	5 S.		13.41	Oct. 7	+	.06
29 M.		35.67	29 M.		13.44	17	+	.07
1866 Jan. 4 S.		35.61	Mean A.R. 1865.0			Nov. 4	+	.03
Mean A.R. 1865.0					0 ^h 16 ^m 13 ^s .431	10	—	.00
		0 ^h 11 ^m 35 ^s .598	A. Oe. 326.			14	+	.08
SCULPTORIS = Pl. 0.50 =			1865 Sept. 27 M.	^{h.} 0 ^{m.} 18	^{s.} 22.43	19	+	.04
B. A. C. 72.			Oct. 13 M.		22.37	30	+	.09
1865 Sept. 13 M.		+	.06	23 M.	22.34	Dec. 9	—	.26
27 M.		—	.04	Dec. 1 M.	22.51	30	+	.13
29 M.		+	.05	5 S.	22.52	Mean		+0.013
30 S.		+	.03	29 M.	22.62	<i>N.A.</i>		8.972
Oct. 13 M.		+	.11	Mean A.R. 1865.0		Mean A.R. 1865.0		
16 M.		+	.15					0 ^h 23 ^m 8 ^s .985
					0 ^h 18 ^m 22 ^s .466			

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
Pr. 0.91 = B. A. C. 115.			1865 Dec. 1 M. ^{h. m. s.} 0 29 12.10			1864 May 9 R. ^{h. m. s.} 0 29 42.85		
1865 Sept. 27 M.		^{h. m. s.} 0 23 37.61	1866 Jan. 4 S.		12.10	18 R.		42.78
Oct. 13 M.		37.77	Mean A.R. 1865.0			22 R.		43.16
16 M.		37.72	0 ^h 29 ^m 12 ^s .033			23 S.		43.40
Nov. 1 S.		37.62	ζ CASSIOPELÆ.			27 S.		42.95
14 M.		37.52	1862 Nov. 3 S. ^{h. m. s.} 0 29 27.86			29 R.		42.77
Dec. 1 M.		37.64	10 S.		27.93	June 2 R.		42.87
29 M.		37.57	Dec. 8 S.		27.88	Mean A.R. 1865.0		
Mean A.R. 1865.0			1863 Nov. 2 S.		27.78	0 ^h 29 ^m 43 ^s .025		
0 ^h 23 ^m 37 ^s .636			1864 Jan. 14 S.		27.97	Pr. 0.131 = B. A. C. 161.		
Pr. 0.100.			27 S.		27.91	1865 Sept. 27 M. ^{h. m. s.} 0 30 33.58		
1865 Sept. 27 M.		^{h. m. s.} 0 25 17.07	Nov. 10 S.		27.83	29 M.		33.65
29 M.		17.16	16 M.		27.92	Oct. 13 M.		33.58
Oct. 13 M.		17.08	23 S.		27.81	16 M.		33.51
16 M.		17.17	25 S.		28.04	23 M.		33.45
23 M.		17.35	29 M.		27.82	Nov. 1 S.		33.70
Nov. 1 S.		17.18	30 M.		28.08	14 M.		33.57
Dec. 5 S.		17.19	Dec. 5 M.		27.92	Dec. 1 M.		33.64
29 M.		17.13	20 S.		27.77	29 M.		33.68
1866 Jan. 4 S.		17.10	1865 Jan. 3 S.		27.98	1866 Jan. 4 S.		33.49
Mean A.R. 1865.0			11 M.		27.82	Mean A.R. 1865.0		
0 ^h 25 ^m 17 ^s .159			20 M.		28.03	0 ^h 30 ^m 33 ^s .585		
Pr. 0.109 = B. A. C. 135.			Mean A.R. 1865.0			α CASSIOPELÆ.		
1865 Sept. 27 M.		^{h. m. s.} 0 27 0.22	0 ^h 29 ^m 27 ^s .903			1862 Nov. 3 S.		
29 M.		0.38	BRADLEY 48.			10 S.		+ .16
Oct. 13 M.		0.24	1863 Nov. 4 S. ^{h. m. s.} 0 29 42.83			Dec. 29 S.		— .06
16 M.		0.39	26 S.		42.72	1863 Jan. 1 S.		— .05
23 M.		0.24	30 S.		43.45	3 S.		— .08
Nov. 1 S.		0.26	Dec. 26 S.		42.96	Nov. 2 S.		— .05
14 M.		0.20	1864 Jan. 6 S.		43.01	4 S.		— .02
Dec. 1 M.		0.25	9 S.		42.78	26 S.		— .17
29 M.		0.21	Sept. 30 S.		42.87	Dec. 26 S.		— .05
1866 Jan. 4 S.		0.23	Oct. 17 S.		42.74	1864 Jan. 9 S.		— .00
Mean A.R. 1865.0			Dec. 8 S.		42.96	16 S.		— .11
0 ^h 27 ^m 0 ^s .262			Mean A.R. 1865.0			27 S.		— .15
Pr. 0.122.			0 ^h 29 ^m 42 ^s .924			Feb. 5 S.		— .04
1865 Sept. 27 M.		^{h. m. s.} 0 29 11.93	SUB POLO.			Sept. 30 S.		— .18
29 M.		12.00	1864 Jan. 8 S. ^{h. m. s.} 0 29 43.96			Nov. 16 M.		+ .02
Oct. 13 M.		11.98	Apr. 22 S.		42.80	29 M.		— .09
16 M.		12.04	29 R.		43.18	30 M.		+ .05
23 M.		12.02	30 R.		42.87	Dec. 30 M.		+ .05
Nov. 1 S.		12.13	May 4 S.		42.96	1865 Jan. 11 M.		— .15
14 M.		12.00	6 S.		42.78	20 M.		— .05
						Mean		— .048
						B. J.		51.842
						Mean A.R. 1865.0		
						0 ^h 32 ^m 51 ^s .794		

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1863 Dec. 26 S.	<i>h. m. s.</i> 0 42 27.78		<i>γ</i> CASSIOPEÆ.			Pr. 0.242.		
1864 Jan. 6 S.		28.08	1862 Dec. 8 S.	<i>h. m. s.</i> 0 48 34.88		1865 Sept. 27 M.	<i>h. m. s.</i> 0 50 50.72	
9 S.		27.96	10 S.		35.00	29 M.		50.74
16 S.		28.31	1863 Jan. 3 S.		34.80	Oct. 13 M.		50.76
Sept. 30 S.		28.04	5 S.		34.99	16 M.		50.76
Nov. 1 S.		28.24	Aug. 6 S.		34.62	23 M.		50.71
Mean A.R. 1865.0			Sept. 9 S.		34.88	25 M.		50.68
<i>O^h 42^m 27^s.853</i>			1864 Jan. 14 S.		35.14	Nov. 14 M.		50.75
SUB POLO.			Feb. 5 S.		34.72	Dec. 1 M.		50.83
1864 Jan. 8 S.	<i>h. m. s.</i> 0 42 28.41		Dec. 30 M.		34.95	29 M.		50.81
April 21 S.		27.23	Mean A.R. 1865.0			Mean A.R. 1865.0	<i>O^h 50^m 50^s.751</i>	
22 S.		28.28	<i>O^h 48^m 34^s.887</i>			43 CEPHEI H.		
29 S.		28.01	SUB POLO.			1862 Nov. 10 S.		—0.13
May 4 S.		27.96	1864 April 22 S.	<i>h. m. s.</i> 0 48 35.01		Dec. 8 S.		+1.61
6 S.		28.17	29 S.		35.04	10 S.		+0.03
9 R.		27.68	May 3 S.		35.19	16 S.		+0.73
18 R.		27.56	4 S.		35.08	29 S.		+0.95
22 R.		28.11	28 R.		34.86	1863 Jan. 3 S.		—0.23
23 S.		28.33	1865 April 17 S.		35.07	5 S.		+0.10
28 R.		27.92	18 S.		35.06	Sept. 28 S.		—0.53
29 R.		27.67	Mean A.R. 1865.0			Oct. 29 S.		—0.53
June 4 S.		28.04	<i>O^h 48^m 35^s.044</i>			Nov. 2 S.		+0.30
Mean A.R. 1865.0			<i>μ</i> ANDROMEDÆ.			26 S.		+0.25
<i>O^h 42^m 27^s.952</i>			1863 Nov. 3 S.	<i>h. m. s.</i> 0 49 16.26		30 S.		+0.06
A. Oe. 799.			4 S.		16.00	Dec. 7 S.		—0.11
1865 Sept. 27 M.	<i>h. m. s.</i> 0 43 13.61		1864 Jan. 6 S.		16.11	10 S.		—0.59
29 M.		13.55	9 S.		16.22	23 S.		+0.06
Oct. 13 M.		13.67	11 S.		16.31	26 S.		+0.04
16 M.		13.55	16 S.		16.15	1864 Jan. 9 S.		+0.51
23 M.		13.62	27 S.		16.12	11 S.		+0.67
Nov. 1 S.		13.77	Sept. 30 S.		16.15	12 S.		—0.19
14 M.		13.56	Oct. 17 S.		16.05	14 S.		+0.21
Dec. 1 M.		13.81	26 S.		16.14	16 S.		+0.77
Mean A.R. 1865.0			Nov. 1 S.		16.20	21 S.		+0.44
<i>O^h 43^m 13^s.642</i>			10 S.		16.25	27 S.		+0.48
Pr. 0.210.			16 M.		16.15	1864 Oct. 17 S.		—0.24
1865 Sept. 27 M.	<i>h. m. s.</i> 0 44 31.71		23 S.		16.22	26 S.		+0.41
Oct. 16 M.		31.71	25 S.		16.18	Nov. 1 S.		+0.33
23 M.		31.52	Dec. 20 S.		16.01	10 S.		+0.93
25 M.		31.83	1865 Jan. 16 M.		16.21	23 S.		+0.18
Nov. 1 S.		31.66	20 M.		16.25	30 M.		—0.20
14 M.		31.66	Mean A.R. 1865.0			Dec. 8 S.		+0.55
Dec. 1 M.		31.80	<i>O^h 49^m 16^s.166</i>			20 S.		—0.76
29 M.		31.80	Pr. 0.242.			30 M.		+0.33
Mean A.R. 1865.0			1865 Sept. 27 M.	<i>h. m. s.</i> 0 50 50.72		1865 Jan. 12 S.		+0.63
<i>O^h 44^m 31^s.711</i>			29 M.		50.74	Oct. 24 S.		—0.78
			Oct. 13 M.		50.76	Nov. 1 S.		+0.15
			16 M.		50.76	15 S.		+1.79
			23 M.		50.71	1866 Jan. 4 S.		+0.05
			25 M.		50.68	Mean		+0.224
			Nov. 14 M.		50.75	T.H.S.		51.40
			Dec. 1 M.		50.83	Mean A.R. 1865.0		
			29 M.		50.81	<i>O^h 50^m 51^s.624</i>		

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
SUB POLO.			Pi. 0.258.			A. Oe. 1092 = 70* HEIS CASSIOPELÆ.		
1862 April 7 S.		^{s.} -0.09	1865 Sept. 27 M.	^{h.} 0 ^{m.} 54	^{s.} 26.46	1865 Sept. 27 M.	^{h.} 0 ^{m.} 58	^{s.} 49.59
25 S.		-0.74	30 S.		26.42	29 M.		49.72
29 S.		-0.15	Oct. 13 M.		26.38	30 S.		49.70
30 H.		-0.37	16 M.		26.37	Oct. 13 M.		49.67
May 7 S.		+1.46	23 M.		26.27	16 M.		49.69
17 S.		0.00	25 M.		26.27	23 M.		49.51
23 S.		-0.70	Nov. 1 S.		26.32	25 M.		49.54
Dec. 10 S.		-0.15	14 M.		26.35	Nov. 1 S.		49.45
29 S.		+0.58	Dec. 29 M.		26.40	14 M.		49.67
1863 June 1 S.		+0.13	Mean A.R. 1865.0			Mean A.R. 1865.0		
1864 Jan. 8 S.		+0.57	0 ^h 54 ^m 26 ^s .360			0 ^h 58 ^m 49 ^s .616		
April 21 S.		+0.54	ε PISCUM. N.A.			44 CEPHEI H.		
22 S.		-0.18	1863 Nov. 3 S.		^{s.} .00	1862 Dec. 8 S.	^{h.} 1 ^{m.} 0	^{s.} 44.65
29 S.		-0.32	4 S.		-.04	10 S.		43.93
May 3 S.		-0.14	Dec. 9 S.		-.01	1863 Jan. 19 S.		44.36
4 S.		-0.22	15 S.		.00	Sept. 28 S.		43.77
6 S.		-0.19	23 S.		+ .02	30 S.		43.74
10 S.		-0.47	26 S.		+ .07	Nov. 30 S.		43.62
19 S.		+1.00	1864 Jan. 6 S.		-.07	Dec. 7 S.		44.05
22 R.		+0.40	9 S.		+ .07	9 S.		44.11
23 S.		+0.60	Oct. 17 S.		-.05	15 S.		43.86
29 R.		-0.36	Nov. 1 S.		-.04	21 S.		43.43
31 S.		+0.24	23 S.		-.09	23 S.		43.91
June 2 R.		+0.32	29 M.		+ .02	26 S.		44.29
4 S.		0.00	30 M.		+ .01	1864 Jan. 9 S.		43.78
10 S.		-0.23	Dec. 9 M.		+ .10	11 S.		43.73
14 S.		+0.49	30 M.		+ .13	21 S.		44.00
1865 May 18 S.		-0.70	1865 Jan. 16 M.		-.05	Mean A.R. 1865.0		
23 M.		-0.04	18 M.		+ .23	1 ^h 0 ^m 43 ^s .949		
25 M.		-0.47	Mean			SUB POLO.		
26 S.		+0.20	N.A.			1864 Jan. 8 S.	^{h.} 1 ^{m.} 0	^{s.} 44.54
30 S.		+0.79	Mean A.R. 1865.0			April 21 S.		43.91
June 1 S.		+0.52	0 ^h 55 ^m 56 ^s .376			22 S.		44.08
8 S.		-0.24	Pi. 0.265 = σ SCULPTORIS.			29 S.		43.88
Mean		+0.061	1865 Sept. 27 M.	^{h.} 0 ^{m.} 55	^{s.} 59.46	May 3 S.		43.93
T.H.S.		51.40	29 M.		59.51	4 S.		44.03
Mean A.R. 1865.0		0 ^h 50 ^m 51 ^s .461	30 S.		59.61	9 R.		43.85
α SCULPTORIS = Pi. 0.250.			Oct. 13 M.		59.46	18 S.		43.98
1865 Sept. 29 M.	^{h.} 0 ^{m.} 52	^{s.} 6.10	16 M.		59.55	19 S.		44.21
30 S.		5.98	23 M.		59.53	23 S.		44.04
Oct. 13 M.		6.14	25 M.		59.54	28 R.		44.01
16 M.		6.02	Nov. 14 M.		59.49	29 R.		43.28
23 M.		5.72	Dec. 1 M.		59.55	June 2 R.		43.52
25 M.		5.89	Mean A.R. 1865.0			Mean A.R. 1865.0		
Dec. 1 M.		6.09	0 ^h 55 ^m 59 ^s .522			1 ^h 0 ^m 43 ^s .943		
29 M.		6.01						
Mean A.R. 1865.0		0 ^h 52 ^m 5 ^s .994						

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
β ANDROMEDÆ. C. des T.								
1862 Dec. 8	S.	^{s.} -0.04	1863 Oct. 22, 23	S.	+1.80	1865 June 23, 24	S.	^{s.} +0.52
10	S.	+0.14	28, 28	S.	-1.21	27, 27	S.	+0.47
1863 Jan. 1	S.	-0.02	28, 29	S.	+1.84	29, 29	S.	+1.41
2	S.	+0.13	Nov. 3, 3	S.	+0.36	July 3, 3	S.	+1.24
3	S.	-0.07	3, 4	S.	+1.37	4, 5	S.	+1.29
19	S.	+0.18	22, 23	S.	-2.09	9, 10	S.	-0.78
Aug. 10	S.	-0.06	26, 26	S.	+1.14	14, 14	S.	+1.10
Sept. 9	S.	+0.04	29, 30	S.	+0.00	14, 15	S.	+0.52
Nov. 30	S.	-0.08	30, 30	S.	+1.48	20, 20	S.	+0.51
Dec. 23	S.	+0.04	Dec. 6, 7	S.	-0.26	20, 21	S.	+0.34
26	S.	-0.05	1864 Jan. 8, 9	S.	+1.77	24, 24	S.	+1.55
1864 Jan. 6	S.	-0.04	Apr. 21, 21	S.	+0.77	30, 31	S.	+1.24
9	S.	-0.06	21, 22	S.	-0.28	Aug. 1, 1	S.	+1.09
10	S.	-0.01	29, 29	S.	+0.42	1, 2	S.	+0.75
11	S.	-0.06	May 5, 5	S.	+3.65	28, 28	M.	+1.63
14	S.	+0.09	5, 6	S.	-2.66	Sept. 13, 13	M.	-0.23
16	S.	+0.11	9, 9	R.S.	-0.62	27, 27	M.	+1.26
21	S.	+0.13	9, 10	S.	-0.85	29, 29	M.	+1.29
27	S.	-0.04	22, 22	R.S.	-0.46	30, 30	S.	+1.25
Feb. 5	S.	-0.07	22, 23	S.	+1.16	Oct. 16, 16	M.	+0.53
Nov. 30	M.	-0.08	27, 27	S.	+0.88	24, 24	S.	-0.64
Dec. 20	M.	-0.23	27, 28	S.R.	-2.02	24, 25	S.M.	+0.79
30	M.	+0.05	June 3, 4	S.	-1.53	Nov. 14, 14	M.	+0.96
1865 Jan. 11	M.	-0.04	7, 7	S.R.	+0.78	16, 16	M.	+0.65
16	M.	-0.14	7, 8	R.S.	+1.63	17, 17	M.	-1.04
18	M.	-0.10	10, 10	S.	-1.14	27, 27	M.	+2.82
Nov. 28	M.	-0.13	28, 28	S.R.	+0.52	Dec. 21, 21	M.	+1.66
Mean		-0.015	28, 29	R.S.	+0.26	21, 22	M.	+0.04
C. des T.		10.904	Oct. 7, 7	S.	-1.42	22, 22	M.	+1.80
Mean A.R. 1865.0			9, 10	S.	-0.42	22, 23	M.	+1.64
		1 ^h 2 ^m 10 ^s .889	10, 10	S.	-0.27	Mean Deviations:		
POLARIS.			10, 11	S.	-1.89	Spring & Summer (53)		+0.748
1862 Mar. 26, 26	S.	^{s.} -2.25	16, 17	S.	-0.02	Autumn & Winter (50)		+0.866
April 7, 7	S.	+0.13	20, 21	S.	-0.42	Final Mean		+0.805
25, 25	S.	+0.30	25, 25	S.	+1.02	B.J.		38.104
May 7, 7	S.	+1.00	25, 26	S.	+1.28	Mean A.R. 1865.0		
13, 14	S.H.	-1.16	Oct. 31, Nov. 1	S.	+0.48			1 ^h 9 ^m 38 ^s .909
14, 14	H.S.	-1.32	1, 1	S.	+1.99	ψ CASSIOPEÆ.		
Nov. 10, 10	S.	+0.42	1, 2	S.	+0.31	1863 Oct. 29	S.	^{h.} ^{m.} ^{s.} 1 16 26.73
Dec. 10, 10	S.	-0.34	11, 11	S.	+2.94	Dec. 15	S.	26.15
28, 29	S.	+1.68	14, 14	S.	+3.32	26	S.	26.13
1863 April 9, 9	S.	+2.37	15, 16	S.	-0.72	1864 Jan. 6	S.	26.20
20, 21	S.	+2.30	25, 25	S.	-1.68	9	S.	26.15
21, 21	S.	+1.05	1865 Apr. 13, 13	S.	-2.63	10	S.	25.93
22, 22	S.	0.00	13, 14	S.	-2.17	11	S.	26.21
Sept. 9, 10	S.	+0.39	16, 17	S.	-0.38	12	S.	26.30
28, 28	S.	+2.91	24, 24	S.	+1.80	14	S.	26.32
28, 29	S.	+2.91	24, 25	S.	+2.22	16	S.	26.18
30, 30	S.	+2.74	May 3, 3	S.	-0.25	21	S.	26.08
Oct. 22, 22	S.	+2.68	23, 23	S.	+0.14	27	S.	26.23
			23, 24	S.	+1.50	Sept. 30	S.	26.16
			25, 25	S.	+1.96	Oct. 10	S.	26.13
			25, 26	S.	+1.74			
			29, 30	S.	+0.55			
			June 22, 23	S.	-0.12			

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1864 Dec. 9 M.		^{h. m. s.} 1 16 26.09	1864 14 S.		^{s.} +.42	1865 Jan. 24 S.		^{s.} +.07
1865 Jan. 12 S.		26.18	27 S.		.00	Mean		+0.122
16 M.		25.81	Nov. 11 S.		+.07	N.A.		24.433
Mean A.R. 1865.0			14 S.		+.23	Mean A.R. 1865.0		
		1 ^h 16 ^m 26 ^s .175	30 M.		+.24			1 ^h 34 ^m 24 ^s .555
SUB POLO.			Dec. 8 S.		+.08	τ CETI.		
1863 May 25 S.		^{h. m. s.} 1 16 26.48	9 M.		+.10	1862 Dec. 8 S.	^{h. m. s.} 1 37 48.09	
1864 April 29 S.		26.36	14 S.		+.11	10 S.	48.02	
May 3 S.		26.24	Mean		+1.122	16 S.	47.97	
9 R.		26.30	N.A.		15.713	1863 Oct. 28 S.	47.81	
18 S.		26.25	Mean A.R. 1865.0			4 S.	48.03	
27 S.		26.35			1 ^h 24 ^m 15 ^s .835	Dec. 23 S.	47.78	
28 R.		26.10	v PERSEI (51 ANDROMEDÆ).			29 S.	47.96	
29 R.		26.17	1862 Dec. 8 S.	^{h. m. s.} 1 29 43.26		30 S.	47.92	
31 S.		26.18	10 S.		43.25	1864. Jan. 14 S.	48.03	
June 2 S.		25.99	16 S.		43.10	27 S.	47.92	
8 S.		26.56	1863 Jan. 1 S.		43.27	Oct. 16 S.	48.00	
13 S.		26.31	Oct. 28 S.		43.08	Nov. 11 S.	47.89	
14 S.		26.17	Dec. 9 S.		43.13	14 S.	47.79	
Mean A.R. 1865.0			23 S.		43.09	25 S.	47.90	
		1 ^h 16 ^m 26 ^s .266	29 S.		43.22	Dec. 8 S.	48.00	
θ CETI. N.A.			1864 Jan. 6 S.		43.35	1865 Jan. 3 S.	48.00	
1862 Dec. 16 S.		^{s.} +.06	27 S.		43.25	11 S.	47.86	
1863 Jan. 3 S.		+.02	Oct. 10 S.		43.23	16 S.	47.86	
Nov. 4 S.		+.10	Nov. 1 S.		43.18	18 S.	47.86	
Dec. 23 S.		+.10	11 S.		43.19	Mean A.R. 1865.0		
26 S.		+.25	16 S.		43.16		1 ^h 37 ^m 47 ^s .931	
1864 Jan. 9 S.		+.21	23 S.		43.32	χ CETI.		
14 S.		+.16	25 M.		43.50	1862 Dec. 8 S.	^{h. m. s.} 1 42 57.29	
16 S.		+.06	30 M.		43.31	10 S.	57.35	
21 S.		+.14	Dec. 8 S.		43.12	16 S.	57.34	
27 S.		+.13	20 M.		43.23	1863 Oct. 28 S.	57.24	
Nov. 23 S.		+.13	1865 Jan. 20 M.		43.20	Nov. 3 S.	57.39	
30 M.		+.19	27 M.		43.37	4 S.	57.34	
Dec. 8 S.		+.20	Mean A.R. 1865.0			Dec. 21 S.	57.21	
1865 Jan. 18 M.		+.17			1 ^h 29 ^m 43 ^s .229	23 S.	57.29	
Mean		+.137	v PISCUM N.A.			29 S.	57.40	
N.A.		16.485	1862 Dec. 8 S.	^{s.} +.011		30 S.	57.37	
Mean A.R. 1865.0			10 S.		0.05	1864 Jan. 21 S.	57.39	
		1 ^h 17 ^m 16 ^s .622	27 S.		0.12	27 S.	57.28	
η PISCUM N.A.			1863 Dec. 23 S.		0.10	Oct. 10 S.	57.43	
1862 Dec. 10 S.		^{s.} +.07	1864 Jan. 9 S.		0.23	Nov. 1 S.	57.41	
16 S.		+.05	27 S.		0.08	11 S.	57.38	
1863 Dec. 23 S.		+.18	Nov. 11 S.		0.09	14 S.	57.32	
26 S.		+.12	14 S.		0.22	25 M.	57.39	
1864 Jan. 9 S.		+.09	16 S.		0.16	30 M.	57.38	
			Dec. 8 S.		0.16	Dec. 8 S.	57.41	
			20 M.		0.09	14 S.	57.29	
						1865 Jan. 3 S.	57.26	
						11 S.	57.30	
						28 S.	57.65	
						Mean A.R. 1865.0		
							1 ^h 42 ^m 57 ^s .353	

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
ω CASSIOPEÆ. Sub Polo only.			1865 Jan. 16 S. $h. m. s.$ 58.42			α PISCUM. Point not stated.		
1865 May 25 M.		$h. m. s.$ 1 45 33.74	18 S.		57.97	1863 Nov. 4 S.	$h. m. s.$ 1 55 3.83	
26 M.		33.85	26 S.		58.10	1864 Nov. 16 M.		3.87
June 2 S.		33.73	Mean A.R. 1865.0			19 M.		3.86
3 S.		33.81	$1^h 51^m 58^s.105$			23 M.		3.86
5 S.		34.06	50 CASSIOPEÆ. Sub Polo.			Dec. 8 S.		3.90
19 M.		33.69	1864 April 29 S. $h. m. s.$ 1 51 58.41			Mean A.R. 1865.0		
Mean A.R. 1865.0			May 3 S.		58.30	$1^h 55^m 3^s.864$		
$1^h 45^m 33^s.813$			4 S.		58.32	γ ANDROMEDÆ.		
β ARIETIS.			9 R.		58.28	1862 Dec. 8 S.	$h. m. s.$ 1 55 37.45	
1864 Jan. 27 S.		+0.09	18 R.		58.31	16 S.		37.49
Feb. 5 S.		+0.01	19 S.		58.81	1863 Feb. 16 S.		37.45
March 3 S.		+0.24	27 S.		58.26	23 S.		37.52
Nov. 11 S.		-0.05	28 R.		58.03	Dec. 21 S.		37.46
14 S.		+0.01	29 R.		57.87	1864 Feb. 5 S.		37.39
19 M.		+0.01	June 7 R.		58.16	12 S.		37.54
30 M.		+0.09	8 S.		58.45	19 S.		37.57
Dec. 8 S.		+0.14	16 S.		58.32	Nov. 11 S.		37.43
20 M.		+0.02	Mean A.R. 1865.0			1865 Jan. 20 M.		37.51
1865 Jan. 20 M.		+0.04	$1^h 51^m 58^s.293$			24 S.		37.45
24 S.		+0.05	α PISCUM. Med.			25 M.		37.55
Feb. 11 S.		+0.05	1863 Dec. 23 S.	$h. m. s.$ 1 55 3.82		26 S.		37.70
Mean		+0.058	29 S.		3.73	27 M.		37.54
N. A.		11.181	30 S.		3.81	30 M.		37.47
Mean A.R. 1865.0			1864 Jan. 21 S.		3.89	Feb. 2 S.		37.55
$1^h 47^m 11^s.239$			27 S.		3.71	9 S.		37.29
λ CASSIOPEÆ. Sub Polo only.			Nov. 1 S.		3.80	11 S.		37.45
1865 May 26 M.	$h. m. s.$ 1 50 55.83		1865 Jan. 12 S.		3.80	14 S.		37.46
June 2 S.		55.55	16 S.		3.80	21 S.		37.37
3 S.		55.62	Mean A.R. 1865.0			Mean A.R. 1865.0		
5 S.		55.81	$1^h 55^m 3^s.795$			$1^h 55^m 37^s.482$		
20 S.		55.39	α PISCUM. Foll.			GROOMBRIDGE 454. Sub Polo only.		
Mean A.R. 1865.0			1862 Dec. 10 S.	$h. m. s.$ 1 55 3.81		1865 May 26 M.	$h. m. s.$ 2 1 0.28	
$1^h 50^m 55^s.640$			1864 Oct. 10 S.		3.86	June 3 S.		0 59.80
50 CASSIOPEÆ.			Nov. 14 S.		3.90	5 S.		59.81
1863 Oct. 28 S.	$h. m. s.$ 1 51 58.15		25 M.		3.97	19 M.		59.83
Nov. 4 S.		58.21	30 M.		3.92	20 S.		59.60
Dec. 29 S.		57.97	Dec. 14 S.		3.86	Mean A.R. 1865.0		
30 S.		57.90	20 M.		3.85	$2^h 0^m 59^s.864$		
1864 Jan. 6 S.		57.97	1865 Jan. 3 S.		3.88	67 CETI.		
21 S.		58.05	18 S.		3.86	1862 Dec. 10 S.	$s.$ +0.16	
27 S.		58.13	Mean A.R. 1865.0			1863 Dec. 29 S.		+0.09
Oct. 10 S.		58.11	$1^h 55^m 3^s.879$			1864 Jan. 9 S.		+0.31
Nov. 1 S.		58.37				14 S.		+0.13
19 M.		58.02						

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1864 Jan. 16 M.		+0.14 ^{s.}	1863 Dec. 29 S.		+0.12 ^{s.}	36 H. CASSIOPELÆ.		
23 M.		+0.19	30 S.		+0.14	1863 Nov. 4 S.	2 25	15.86 ^{h. m. s.}
25 M.		+0.28	1864 Jan. 9 S.		+0.25	Dec. 9 S.		16.07
30 M.		+0.17	Feb. 8 S.		+0.32	22 S.		16.12
Dec. 8 S.		+0.28	Nov. 11 S.		+0.08	23 S.		15.92
9 M.		+0.07	16 M.		+0.21	29 S.		15.92
14 S.		+0.05	19 M.		+0.13	30 S.		16.18
20 M.		+0.07	23 M.		+0.17	1864 Jan. 9 S.		15.77
30 M.		+0.22	25 M.		+0.24	Feb. 5 S.		16.08
1865 Jan. 11 M.		+0.09	30 M.		+0.20	8 S.		15.68
16 M.		+0.09	Dec. 9 M.		+0.23	Nov. 16 M.		15.93
18 S.		+0.05	Mean		+0.126	19 M.		15.86
24 S.		+0.07	<i>C. des T.</i>		58.876	23 M.		15.67
25 M.		+0.18	Mean A.R. 1865.0			30 M.		15.98
27 M.		+0.23	2 ^h 17 ^m 59 ^s .002			Mean A.R. 1865.0		
Mean		+0.151				2 ^h 25 ^m 15 ^s .926		
<i>N.A.</i>		14.992				36 H. CASSIOPELÆ. Sub Polo.		
Mean A.R. 1865.0						1863 May 23 S.	2 25	15.73 ^{h. m. s.}
2 ^h 10 ^m 15 ^s .143			1864 April 29 S.		+0.12	1864 April 21 S.		15.99
			May 3 S.		+0.44	29 S.		16.36
			19 S.		+0.74	May 3 S.		16.15
			22 R.		+0.09	19 S.		16.27
			27 R.		+0.28	22 R.		16.19
			28 R.		+0.21	27 R.		16.04
			29 R.		+0.36	28 R.		15.97
			June 7 R.		+0.05	29 R.		16.06
			8 S.		+0.67	31 S.		16.06
			18 M.		+0.34	June 6 S.		16.08
			21 S.		+0.37	Mean A.R. 1865.0		
			Mean		+0.322	2 ^h 25 ^m 16 ^s .082		
			<i>C. des T.</i>		58.876	GROOMBRIDGE 527.		
			Mean A.R. 1865.0			1862 Dec. 10 S.		+0.24 ^{s.}
			2 ^h 17 ^m 59 ^s .198			16 S.		+0.08
						1863 Sept. 9 S.		+0.27
						Nov. 4 S.		+0.35
						30 S.		+0.40
						Dec. 9 S.		+0.05
						21 S.		+0.09
						23 S.		+0.10
						29 S.		+0.29
						30 S.		+0.28
						1864 Jan. 9 S.		+0.44
						Feb. 8 S.		+0.72
						Nov. 30 M.		+0.46
						1865 Dec. 1 M.		+0.28
						Mean		+0.179
						<i>T.H.S.</i>		33.75
						Mean A.R. 1865.0		
						2 ^h 28 ^m 33 ^s .571		
						36 H. CASSIOPELÆ. Sub Polo.		
						1863 May 23 S.	2 25	15.73 ^{h. m. s.}
						1864 April 21 S.		15.99
						29 S.		16.36
						May 3 S.		16.15
						19 S.		16.27
						22 R.		16.19
						27 R.		16.04
						28 R.		15.97
						29 R.		16.06
						31 S.		16.06
						June 6 S.		16.08
						Mean A.R. 1865.0		
						2 ^h 25 ^m 16 ^s .082		
						GROOMBRIDGE 527.		
						1862 Dec. 10 S.		+0.24 ^{s.}
						16 S.		+0.08
						1863 Sept. 9 S.		+0.27
						Nov. 4 S.		+0.35
						30 S.		+0.40
						Dec. 9 S.		+0.05
						21 S.		+0.09
						23 S.		+0.10
						29 S.		+0.29
						30 S.		+0.28
						1864 Jan. 9 S.		+0.44
						Feb. 8 S.		+0.72
						Nov. 30 M.		+0.46
						1865 Dec. 1 M.		+0.28
						Mean		+0.179
						<i>T.H.S.</i>		33.75
						Mean A.R. 1865.0		
						2 ^h 28 ^m 33 ^s .571		

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
SUB POLO.			γ CETI. N.A.			η ERIDANI.		
1862 May 14	H.	^{s.} -0.13	1862 Dec. 10	S.	^{s.} +.08	1862 Dec. 10	^{h. m. s.} 2 49 50.02	
17	S.	+0.07	1863 Feb. 2	S.	+0.12	16		50.05
23	S.	-0.24	Dec. 29	S.	+0.08	1863 Dec. 29		50.04
June 16	S.	-0.24	1864 Jan. 9	S.	+0.15	1864 Jan. 9		50.05
1864 April 21	S.	-0.41	11	S.	+0.02	11		50.06
29	S.	-0.18	Nov. 10	S.	+0.06	25		50.15
May 3	S.	-0.07	19	M.	+0.12	Feb. 10		49.97
5	S.	-0.10	25	M.	+0.06	Nov. 16		50.00
10	S.	+0.08	30	M.	+0.06	19		50.00
19	S.	-0.22	Dec. 14	M.	+0.03	23		50.01
27	S.	-0.19	30	S.	+0.14	25		49.95
28	R.	-0.04	1865 Jan. 12	M.	+0.12	30		50.04
31	S.	-0.10	13	S.	+0.15	Dec. 14		49.98
June 2	S.	-0.11	16	M.	+0.10	20		50.11
6	S.	-0.50	18	M.	+0.07	30		50.10
27	M.	-0.70	24	M.	+0.13	1865 Jan. 12		50.04
Mean		-0.192	26	S.	+0.15	13		50.06
T.H.S.		33.75	28	S.	+0.17	16		49.86
Mean A.R. 1865.0			Feb. 9	S.	+0.08	18		50.09
			11	S.	+0.17	24		50.08
			Mean		+0.103	Mean A.R. 1865.0		
			N.A.		18.406			2 ^h 49 ^m 50 ^s .033
			Mean A.R. 1865.0					
					2 ^h 36 ^m 18 ^s .509			
ϵ CETI.			41 ARIETIS. C des T.			GROOMBRIDGE 580. Sub Polo.		
1862 Dec. 10	S.	^{h. m. s.} 2 33 2.11	1862 Dec. 10	S.	^{s.} +.02	1865 May 25	^{h. m. s.} 2 51 1.10	
1863 Feb. 2	S.	2.22	20	S.	+0.01	26	M.	1.72
Dec. 29	S.	2.12	1863 Feb. 2	S.	+0.01	June 2	S.	1.45
1864 Jan. 9	S.	2.11	16	S.	+0.05	3	S.	1.44
11	S.	2.15	Dec. 22	S.	+0.04	19	M.	1.32
Nov. 10	S.	2.12	1864 Jan. 9	S.	+0.05	21	M.	0.94
16	M.	2.12	11	S.	-0.02	27	M.	0.87
19	M.	2.10	Feb. 10	S.	+0.01	July 3	M.	0.53
23	M.	2.18	12	S.	+0.09	Mean A.R. 1865.0		
25	M.	2.25	Nov. 19	S.	+0.03			2 ^h 51 ^m 1 ^s .171.
30	M.	2.14	23	M.	+0.10	ϵ ARIETIS.		
Dec. 14	S.	2.11	25	M.	+0.14	1862 Dec. 10	^{h. m. s.} 2 51 29.79	
30	M.	2.27	30	M.	+0.11	16	S.	29.84
1865 Jan. 12	S.	2.15	Dec. 14	S.	-0.02	1864 Jan. 11	S.	29.92
13	M.	2.15	30	M.	+0.07	Nov. 16	M.	29.78
16	S.	2.00	1865 Jan. 13	M.	+0.11	19	S.	29.87
18	M.	2.23	16	M.	+0.08	25	M.	29.88
24	S.	2.15	18	M.	+0.27	30	M.	29.96
26	S.	2.18	Mean		+0.064	Dec. 14	S.	29.81
28	S.	2.14	C. des T.		2.595	1865 June 12	S.	29.94
30	M.	2.16	Mean A.R. 1865.0			18	M.	30.00
Feb. 2	S.	2.29			2 ^h 42 ^m 2 ^s .659	20	M.	29.80
Mean A.R. 1865.0								
		2 ^h 33 ^m 2 ^s .157						

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
δ ERIDANI.								
1863 Jan.	5 S.	^{h. m. s.} 3 36 46.96	1863 Feb.	16 S.	^{h. m. s.} 3 45 39.16	1865 Jan.	11 M.	^{s.} +0.28
Dec.	26 S.	46.99	Nov.	23 S.	39.15	13 M.		+0.20
1864 Jan.	11 S.	49.07	Dec.	26 S.	39.17	18 M.		+0.21
	21 S.	47.00	1864 Jan.	5 S.	38.88	20 M.		+0.14
	27 S.	46.86		11 S.	39.17	24 M.		+0.19
Feb.	5 S.	46.96		27 S.	39.07	25 M.		+0.18
Nov.	23 S.	47.14	Nov.	23 S.	39.18	27 M.		+0.29
	25 M.	47.04	1865 Jan.	4 M.	39.14	30 M.		+0.22
1865 Jan.	4 M.	47.05		11 M.	39.13	Mean		+0.138
	11 M.	47.10		12 M.	39.02			43.823
	12 M.	46.96		13 M.	39.17	Mean A.R. 1865.0		
	13 M.	46.91		18 M.	39.16			3 ^h 51 ^m 43 ^s .961
	16 M.	46.94		20 M.	39.05			
	18 M.	47.02		25 M.	39.05			
	20 M.	47.06		27 M.	39.12			
	24 M.	47.15	Feb.	1 S.	38.99			
	25 M.	47.08		2 S.	39.26			
	27 M.	47.11		14 S.	39.12			
Feb.	1 S.	46.96	Mean A.R. 1865.0		3 ^h 45 ^m 39 ^s .111			
	13 M.	46.99						
	14 S.	47.05						
	21 S.	46.92						
	25 S.	46.98						
Mean A.R. 1865.0		3 ^h 36 ^m 47 ^s .013						
η TAURI. N.A.								
1862 Dec.	11 S.	^{s.} +0.09						
1863 Dec.	21 S.	-0.11						
1864 Jan.	11 S.	+0.10						
	27 S.	+0.06						
Feb.	5 S.	+0.05						
Nov.	25 S.	+0.07						
1865 Jan.	13 M.	+0.09						
	16 M.	+0.11						
	18 M.	+0.12						
	20 M.	+0.26						
	24 M.	+0.15						
	25 M.	+0.06						
	27 M.	+0.14						
Mean		+0.092						
N.A.		27.784						
Mean A.R. 1865.0		3 ^h 39 ^m 27 ^s .876						
ζ PERSEI.								
1862 Dec.	11 S.	^{h. m. s.} 3 45 39.12						
1863 Jan.	5 S.	39.08						
Feb.	14 S.	39.14						

[illegible]

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
ι AURIGÆ. N.A.						Mean ^{s.} +0.275		
1862 Oct.	5 S.	+0.29	1865 Jan.	2 M.	4 55 1.94	N.A. 44.732		
1865 Jan.	4 M.	.04		4 M.	1.85	Mean A.R. 1865.0		
	13 M.	.11		11 M.	1.79	4 ^h 59 ^m 45 ^s .007		
	16 M.	.19		13 M.	1.78			
	18 M.	+0.11		16 M.	2.14			
	20 M.	−0.02		20 M.	1.65			
	24 M.	−0.01		24 M.	1.47			
	26 S.	+0.04		25 M.	1.69			
	27 M.	+0.04		26 S.	1.79			
	30 M.	+0.06		27 M.	1.83			
Feb.	1 M.	+0.12		28 M.	1.56			
	2 S.	+0.19	Feb.	30 M.	1.78			
	3 M.	+0.09		1 M.	1.85			
	9 M.	.00		2 S.	1.80			
	11 S.	+0.05		3 M.	1.82			
	13 M.	−0.06		9 S.	1.57			
	14 M.	+0.02	Mean A.R. 1865.0					
	21 S.	−0.02	4 ^h 55 ^m 1 ^s .775					
	25 S.	+0.05						
	27 M.	.00						
Mean		+0.065	RADCLIFFE 1377. S.P.					
		12.340						
Mean A.R. 1865.0								
4 ^h 48 ^m 12 ^s .405								
10 CAMELOPARDALI. SUB POLO.								
C. des T.								
1865 June	23 M.	+0.19	1865 June	23 M.	4 58 19.74			
	27 M.	−0.20	July	15 M.	19.59			
July	3 M.	−0.22		17 M.	20.37			
	5 S.	−0.16		22 M.	19.11			
	8 M.	−0.11		29 S.	20.09			
	11 S.	−0.01		31 M.	19.95			
	14 M.	−0.09	Mean A.R. 1865.0					
	17 M.	−0.11	4 ^h 58 ^m 19 ^s .808					
	22 M.	−0.16						
	26 M.	−0.23						
	28 M.	−0.11						
	31 M.	−0.03						
Mean		−0.103	ε LEPORIS. N.A.					
C. des T.		25.30						
Mean A.R. 1865.0								
4 ^h 51 ^m 25 ^s .197								
ι TAURI.								
1862 Oct.	5 S.	4 55 1.73	1865 Jan.	2 M.	+0.11			
1863 Jan.	19 S.	1.82		4 M.	0.26			
1864 Feb.	19 S.	1.64		11 M.	0.20			
	29 S.	2.00		16 M.	0.41			
				18 M.	0.43			
				20 M.	0.19			
				24 M.	0.24			
				25 M.	0.24			
				26 S.	0.23			
				27 M.	0.30			
				28 M.	0.39			
				30 M.	0.29			
			Feb.	1 M.	0.31			
				2 S.	0.19			
				3 M.	0.32			
				9 S.	0.26			
				13 M.	0.30			
				14 M.	0.21			
				25 S.	0.33			
				27 M.	0.29			

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1865 Jan. 20 M.		^{h. m. s.} 6 6 43.79	1865 April 3 M.		^{s.} +0.14	1864 Mar. 19 S.		^{h. m. s.} 6 20 56.94
27 M.		43.69	4 S.		+0.03	24 S.		56.82
28 S.		43.80	5 M.		-0.05	1865 Jan. 2 M.		56.93
30 M.		43.74	14 S.		+0.02	11 M.		56.79
Feb. 1 M.		43.80	Mean		+0.058	16 M.		56.93
3 M.		43.79	N.A.		47.581	20 M.		56.98
11 S.		43.81	Mean A.R. 1865.0		6 ^h 14 ^m 47 ^s .639	25 M.		56.81
13 M.		43.80				27 M.		56.86
14 M.		43.86				30 M.		56.87
Mar. 18 S.		43.74				Feb. 1 M.		56.87
Mean A.R. 1865.0		6 ^h 6 ^m 43 ^s .764				9 S.		56.86
			β CANIS MAJORIS. C. des T.			13 M.		56.95
ν COLUMBÆ.			1865 Jan. 2 M.		^{s.} +0.26	14 M.		56.97
1862 Oct. 5 S.		^{h. m. s.} 6 11 45.00	11 M.		+0.01	21 M.		56.88
1865 Jan. 11 M.		45.19	20 M.		+0.02	Mar. 18 S.		56.93
16 M.		45.02	28 S.		-0.06	Mean A.R. 1865.0		6 ^h 20 ^m 56 ^s .871
20 M.		44.98	30 M.		-0.09			
25 M.		44.98	Feb. 9 S.		-0.07	23 CAMELOPARDALI H.		
27 M.		45.11	11 M.		-0.07	1863 Feb. 2 S.		^{h. m. s.} 6 23 8.24
30 M.		45.07	13 M.		-0.01	Mar. 2 S.		8.57
Feb. 1 M.		44.97	14 M.		-0.07	Mar. 5 S.		8.54
9 S.		45.10	21 M.		+0.03	Dec. 29 S.		8.16
13 M.		45.29	24 M.		-0.04	1864 Jan. 11 S.		7.84
21 S.		45.09	Mar. 6 M.		+0.16	14 S.		8.71
24 M.		45.17	13 M.		-0.08	16 S.		8.49
Mar. 6 M.		44.95	18 S.		-0.13	25 S.		8.36
13 M.		45.09	27 M.		-0.13	27 S.		7.97
18 S.		45.21	28 M.		-0.10	Feb. 23 S.		8.60
Mean A.R. 1865.0		6 ^h 11 ^m 45 ^s .081	April 3 M.		-0.28	26 S.		8.47
			4 S.		-0.07	Mar. 19 S.		8.40
μ GEMINORUM. N.A.			5 M.		-0.07	21 S.		8.17
1865 Jan. 2 M.		^{s.} +0.25	14 S.		-0.01	1865 Jan. 2 M.		8.50
11 M.		+0.01	17 M.		-0.04	11 M.		7.63
16 M.		+0.10	19 M.		-0.08	Mean A.R. 1865.0		6 ^h 23 ^m 8 ^s .310
20 M.		+0.09	24 M.		-0.03			
24 S.		0.00	25 M.		-0.02	SUB POLO.		
25 M.		+0.03	Mean		-0.040	1863 July 23 S.		^{h. m. s.} 6 23 8.30
27 M.		-0.01	C. des T.		45.44	29 S.		8.45
Feb. 1 M.		+0.14	Mean A.R. 1865.0		6 ^h 16 ^m 45 ^s .400	Aug. 3 S.		7.98
11 S.		+0.14				10 S.		8.73
13 M.		-0.06	ν GEMINORUM.			12 S.		8.76
14 M.		+0.09	1862 Mar. 26 S.		^{h. m. s.} 6 20 56.87	15 S.		8.97
21 S.		+0.01	Oct. 5 S.		56.72	17 S.		8.35
24 M.		+0.07	7 S.		56.73	24 S.		8.31
Mar. 6 M.		+0.05	1863 Feb. 2 S.		56.86	Sept. 5 S.		8.31
13 M.		+0.05	1864 Jan. 11 S.		56.88	10 S.		8.17
28 M.		+0.06	25 S.		56.87	30 S.		8.47
			27 S.		56.81			
			Feb. 26 S.		56.84			
			Mar. 9 S.		56.94			

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
SUB POLO.			156 CAMELOPARDALI B.			1865 Sept. 2 S. 7 ^h 43 ^m 24.65 ^s		
1864 July 14 S.		47.86	1862 Mar. 11 H.		-0.66	4 M.		25.14
Sept. 6 S.		48.62	28 S.		+0.19	6 M.		24.43
9 S.		48.28	1863 Feb. 7 S.		+0.48	Mean A.R. 1865.0		
10 S.		48.19	21 S.		-0.17	7 ^h 43 ^m 24.759		
Oct. 7 S.		48.09	Mar. 2 S.		+0.11	ξ ARGUS. C. des T.		
1865 July 24 M.		47.98	1864 Mar. 3 S.		+0.15	1864 Feb. 23 S.		-0.27
28 M.		48.33	7 S.		+0.40	Mar. 19 R.		+0.11
Aug. 2 M.		48.26	1865 April 4 S.		+0.10	21 R.		+0.03
Sept. 4 M.		48.75	Mean		+0.075	1865 Feb. 24 M.		-0.02
5 S.		48.24	T.H.S.		10.61	Mar. 4 S.		+0.06
6 M.		48.09	Mean A.R. 1865.0		7 ^h 44 ^m 10 ^s .685	6 M.		+0.12
Mean A.R. 1865.0			SUB POLO.			17 M.		+0.15
7 ^h 16 ^m 48 ^s .245			1862 Aug. 11 S.		+0.31	27 M.		+0.01
η CANIS MAJORIS.			20 S.		-0.11	28 M.		+0.08
1862 Mar. 11 H.		45.48	Sept. 4 S.		-0.31	April 3 S.		-0.22
Oct. 7 S.		45.26	11 S.		+0.02	4 S.		-0.05
1864 Jan. 14 S.		45.49	16 S.		+0.63	5 M.		+0.23
27 S.		45.28	1863 Aug. 12 S.		+0.55	24 M.		+0.13
Feb. 26 S.		45.36	14 S.		+0.70	Mean		+0.028
Mar. 3 S.		45.27	17 S.		-0.99	C. des T.		37.006
19 R.		45.34	Sept 21 S.		-0.03	Mean A.R. 1865.0		
21 R.		45.42	Oct. 23 S.		+0.62	7 ^h 43 ^m 37 ^s .034		
24 S.		45.27	1864 Jan. 6 R.		-0.46	χ GEMINORUM N.A.		
1865 Jan. 30 M.		45.53	Sept. 6 S.		+0.16	1862 Mar. 11 H.		+0.08
Feb. 1 M.		45.65	16 S.		+0.37	1863 Feb. 7 S.		-0.04
2 S.		45.41	17 S.		-0.43	1864 Feb. 23 S.		-0.01
21 M.		45.51	Oct. 17 S.		+0.11	25 S.		-0.07
24 M.		45.52	21 S.		+0.09	26 S.		+0.04
Mar. 4 S.		45.46	25 S.		+0.13	Mar. 3 S.		-0.10
27 M.		45.40	26 S.		-0.11	7 S.		.00
April 5 S.		45.36	1865 Oct. 17 S.		+0.19	19 R.		+0.15
Mean A.R. 1865.0			30 M.		+0.06	21 R.		+0.06
7 ^h 18 ^m 45 ^s .412			Nov. 1 S.		-0.50	24 S.		+0.01
28 CAMELOPARDALI H. Sub			Mean		+0.048	1865 Feb. 24 M.		+0.08
Polo only.			T.H.S.		10.61	Mar. 17 M.		-0.05
1865 July 28 M.		48.94	Mean A.R. 1865.0		7 ^h 44 ^m 10 ^s .658	27 M.		+0.05
31 M.		48.73	PIAZZI. VII. 187.			28 M.		-0.01
Aug. 2 M.		48.27	1865 July 28 M.		25.16	April 3 M.		.00
4 M.		48.75	31 M.		24.77	5 M.		.00
8 M.		48.75	Aug. 2 M.		24.84	13 M.		-0.05
9 M.		48.40	4 M.		24.65	Mean		+0.008
12 M.		49.09	9 M.		24.35	N.A.		13.423
26 S.		48.40	12 M.		24.89	Mean A.R. 1865.0		
Sept. 2 S.		47.61	26 S.		24.71	7 ^h 55 ^m 13 ^s .431		
4 M.		48.62						
Mean A.R. 1865.0								
7 ^h 33 ^m 48 ^s .556								

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
ζ ARGUS.			GR. 1418.			α URSÆ MAJORIS. Sub Polo.		
1864 Feb. 23 S.		^{h. m. s.} 7 58 50.26	1863 Mar. 5 S.		^{h. m. s.} 8 15 32.98	1864 June 6 R.		^{h. m. s.} 8 19 1.19
26 S.		50.45	11 S.		34.15	Sept. 6 S.		1.57
Mar. 24 S.		50.53	April 1 S.		34.52	16 S.		1.78
1865 Feb. 21 S.		50.45	1864 Feb. 26 S.		34.08	Oct. 5 S.		1.39
April 5 M.		50.48	Mar. 3 S.		34.44	25 S.		1.36
Mean A.R. 1865.0			7 S.		34.77	26 S.		1.27
		7 ^h 58 ^m 50 ^s .434	21 R.		35.43	Nov. 1 S.		1.29
			April 8 S.		35.65	2 S.		1.44
			1865 Mar. 4 S.		33.19	1865 Oct. 9 M.		1.31
			17 M.		34.13	Mean A.R. 1865.0		
			April 5 M.		33.99			8 ^h 19 ^m 1 ^s .400
			Mean A.R. 1865.0					
					8 ^h 15 ^m 34 ^s .303			
ι NAVIS. N.A.			GR. 1418. Sub Polo.			A. URSÆ MAJORIS.		
1863 Feb. 7 S.		^{s.} +0.06	1863 July 29 S.		^{h. m. s.} 8 15 34.73	1862 Mar. 27 S.		^{h. m. s.} 8 22 28.91
1864 Mar. 19 R.		+0.17	Aug. 14 S.		34.60	29 S.		28.86
21 R.		+0.16	Sept. 24 S.		34.68	April 4 S.		28.85
24 S.		+0.09	28 S.		34.77	7 S.		28.70
1865 Feb. 21 S.		+0.06	Oct. 28 S.		34.38	1863 Feb. 7 S.		28.73
24 M.		+0.03	29 S.		33.95	Mar. 5 S.		28.73
Mar. 28 M.		+0.13	1864 June 6 R.		33.86	11 S.		28.83
April 3 M.		-0.02	Sept. 16 S.		32.58	30 S.		29.06
5 M.		+0.10	Oct. 25 S.		34.47	April 1 S.		28.83
13 M.		+0.06	26 S.		33.60	1864 Feb. 26 S.		29.09
Mean		+0.084	Nov. 2 S.		34.42	Mar. 12 S.		28.96
N.A.		47.705	3 S.		34.42	19 R.		28.39
Mean A.R. 1865.0			Mean A.R. 1865.0			21 R.		28.97
		8 ^h 1 ^m 47 ^s .789			8 ^h 15 ^m 34 ^s .205	April 7 R.		28.97
						8 S.		28.76
						Mean A.R. 1865.0		
								8 ^h 22 ^m 28 ^s .843
β CANCRI. C. des T.			α URSÆ MAJORIS.			A. URSÆ MAJORIS. Sub Polo.		
1862 Mar. 28 S.		^{s.} +0.07	1862 Mar. 11 S.		^{h. m. s.} 8 19 1.47	1863 Oct. 1 S.		^{h. m. s.} 8 22 28.63
1863 Feb. 7 S.		-0.12	28 S.		1.22	1864 Sept. 6 S.		29.01
Mar. 5 S.		+0.01	April 4 S.		1.42	16 S.		28.71
11 S.		+0.10	7 S.		1.37	Oct. 5 S.		28.68
April 1 S.		-0.01	1863 Feb. 7 S.		1.29	10 S.		28.99
1864 Feb. 26 S.		-0.06	Mar. 11 S.		1.39	25 S.		28.92
Mar. 3 S.		-0.01	April 1 S.		1.18	26 S.		28.81
7 S.		-0.03	1864 Feb. 26 S.		1.47	Nov. 1 S.		28.56
21 R.		-0.01	Mar. 7 S.		1.47	2 S.		29.00
April 7 R.		-0.12	19 R.		1.54	3 S.		29.04
1865 Feb. 24 M.		+0.06	21 R.		1.53	10 S.		28.98
Mar. 6 M.		+0.03	April 7 R.		1.36	1865 Oct. 9 M.		28.63
17 M.		+0.05	8 S.		1.39	Mean A.R. 1865.0		
27 M.		+0.02	Mean A.R. 1865.0					8 ^h 22 ^m 28 ^s .830
April 3 M.		-0.07			8 ^h 19 ^m 1 ^s .393			
4 M.		-0.05						
5 M.		+0.01						
13 M.		-0.05						
24 M.		+0.03						
25 M.		+0.05						
Mean		-0.005						
C. des T.		11.587						
Mean A.R. 1865.0								
		8 ^h 9 ^m 11 ^s .582						

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
η CANCRI. N.A.			1864 Mar. 12 S. $+.03$			1865 Sept. 15 M. $8^h 46^m 37.15^s$		
1862 Mar. 29 H. $+.22$			19 R. $-.06$			19 M. 36.90		
April 4 H. $+.08$			24 S. $+.09$			23 S. 37.43		
Feb. 7 S. $+.01$			April 15 S. $-.08$			25 M. 36.32		
1863 Mar. 11 S. $+.01$			1865 Mar. 4 S. $+.05$			26 M. 37.47		
1864 Feb. 26 S. $+.02$			6 M. $.00$			27 M. 36.86		
Mar. 7 S. $+.05$			17 M. $+.01$			Mean A.R. 1865.0		
19 R. $.00$			27 M. $+.07$			$8^h 46^m 36.981$		
21 R. $+.12$			Mean $+.029$					
1865 Feb. 24 M. $+.17$			N.A. 37.513					
Mar. 6 M. $+.08$			Mean A.R. 1865.0					
17 M. $+.07$			$8^h 39^m 37.542$					
27 M. $+.08$			6 URSAE MAJORIS.					
April 3 M. $+.02$			1863 Feb. 7 S. $8^h 45^m 0.62^s$					
5 M. $+.06$			Mar. 2 S. 0.80					
8 S. $+.06$			9 S. 0.91					
17 M. $+.07$			30 S. 0.70					
Mean $+0.070$			April 9 S. 0.77					
N.A. 53.848			1864 Mar. 7 S. 0.88					
Mean A.R. 1865.0			12 S. 0.93					
$8^h 24^m 53.918$			24 S. 0.82					
			April 7 R. 0.84					
			9 R. 0.79					
			15 S. 0.83					
			1865 Mar. 10 M. 0.89					
			Mean A.R. 1865.0					
			$8^h 45^m 0.815$					
			6 URSAE MAJORIS. Sub Polo.					
			1863 Aug. 14 S. $8^h 45^m 0.75^s$					
			Sept. 17 S. 0.84					
			Nov. 19 S. 0.93					
			1864 June 6 R. 0.75					
			Sept. 6 S. 0.96					
			15 S. 0.87					
			16 S. 0.88					
			Oct. 10 S. 1.07					
			Nov. 1 S. 0.81					
			10 S. 1.01					
			Mean A.R. 1865.0					
			$8^h 45^m 0.887$					
			R. C. 2218.					
			1865 Sept. 11 M. $8^h 46^m 36.43^s$					
			13 M. 36.80					
			14 S. 37.47					

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1864 Mar. 7 S.		^{h.} 8 ^{m.} 58 ^{s.} 28.23	λ ARGUS.			83 CANCRI. N.A.		
12 S.		28.37	1862 Mar. 28 S.		^{h.} 9 ^{m.} 3 ^{s.} 2.13	1862 April 4 H.		+0.13
17 R.		28.26	29 S.		2.07	7 S.		+0.09
19 R.		27.96	1863 April 4 S.		1.97	1863 Mar. 9 S.		+0.18
21 R.		28.45	1863 Feb. 7 S.		2.00	April 9 S.		+0.02
24 R.		28.35	April 1 S.		1.94	21 S.		+0.08
April 7 R.		28.34	9 S.		1.97	22 S.		+0.16
Mean A.R. 1865.0		8 ^h 58 ^m 28 ^s .241	1864 Mar. 12 S.		2.05	1864 Mar. 19 R.		+0.28
σ^2 URSÆ MAJORIS. Sub Polo.			14 S.		1.98	21 R.		+0.24
1862 Sept. 25 S.		^{h.} 8 ^{m.} 58 ^{s.} 28.37	24 R.		1.96	April 16 R.		+0.20
Oct. 7 S.		28.25	1865 April 7 R.		2.07	1865 Mar. 6 M.		+0.26
1863 Aug. 14 S.		28.28	10 M.		2.10	17 M.		+0.19
Sept. 30 S.		28.01	17 M.		1.98	23 S.		+0.18
Nov. 19 S.		28.44	23 M.		1.84	25 S.		+0.20
1864 Sept. 10 S.		28.24	27 M.		1.97	27 M.		+0.22
16 S.		28.11	28 M.		1.82	April 17 M.		+0.19
Oct. 7 S.		28.21	April 3 M.		1.62	19 M.		+0.08
10 S.		28.68	5 M.		2.25	Mean		+0.169
Nov. 3 S.		28.78	13 M.		1.94	N.A.		26.457
Mean A.R. 1865.0		8 ^h 58 ^m 28 ^s .337	14 S.		2.09	Mean A.R. 1865.0		9 ^h 11 ^m 26 ^s .626
α CANCRI.			17 M.		2.22	1 DRAC. H.		
1862 Mar. 28 S.		^{h.} 9 ^{m.} 0 ^{s.} 26.06	Mean A.R. 1865.0		9 ^h 3 ^m 1 ^s .997	1862 April 25 S.		+0.08
29 H.		26.09	θ HYDRÆ.			1863 Mar. 2 S.		0.00
April 4 H.		26.01	1862 Mar. 29 H.		^{h.} 9 ^{m.} 7 ^{s.} 20.45	9 S.		-0.40
7 S.		25.95	April 4 H.		20.44	April 9 S.		-0.07
1863 Feb. 7 S.		25.92	7 S.		20.30	21 S.		-0.52
Mar. 2 S.		26.08	1863 Feb. 7 S.		20.36	22 S.		-0.38
30 S.		25.97	April 9 S.		20.26	1864 Mar. 24 R.		-0.60
April 1 S.		26.00	1864 Mar. 14 S.		20.31	April 7 R.		-0.24
9 S.		26.01	17 R.		20.32	22 S.		-0.24
21 S.		25.84	19 R.		20.43	1865 Mar. 6 M.		-0.55
1864 Mar. 7 S.		25.96	21 R.		20.38	25 S.		-0.07
12 S.		26.05	24 R.		20.36	April 3 M.		-0.56
21 R.		26.16	April 7 R.		20.30	13 M.		-0.07
24 R.		25.99	16 R.		20.32	14 S.		+0.13
April 7 R.		25.91	27 S.		20.40	17 M.		-0.16
9 R.		26.09	1865 Mar. 6 M.		20.46	25 M.		-0.10
16 R.		25.99	10 M.		20.33	Mean		-0.234
1865 Mar. 6 M.		26.10	17 M.		20.35	T.H.S.		34.69
10 M.		25.95	27 M.		20.42	Mean A.R. 1865.0		9 ^h 17 ^m 34 ^s .456
17 M.		26.01	28 M.		20.42	SUB POLO.		
27 M.		26.05	April 3 M.		20.34	1862 Sept. 10 S.		-0.24
28 M.		26.16	5 M.		20.49	23 S.		-0.22
April 3 M.		26.08	13 M.		20.40	29 S.		-0.33
Mean A.R. 1865.0		9 ^h 0 ^m 26 ^s .019	14 M.		20.32	Oct. 7 S.		-0.19
			Mean A.R. 1865.0		9 ^h 7 ^m 20 ^s .371	8 S.		-0.53

[illegible]

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1864 Oct. 7 S.		^{h.} 9 ^{m.} 41 ^{s.} 21.70	λ HYDRÆ.			γ LEONIS. N.A.		
10 S.		22.12	1862 Mar. 29 H.	^{h.} 10 ^{m.} 4 ^{s.} 0.48	1862 April 7 S.		—0.03	
17 S.		21.94	April 4 H.	0.58	19 S.		+0.06	
Mean A.R. 1865.0		9 ^h 41 ^m 21 ^s .892	7 S.	0.46	Oct. 5 S.		—0.05	
μ LEONIS. C. des T.			12 H.	0.56	7 S.		0.00	
1862 Mar. 27 H.		+0.12	16 H.	0.51	1865 Mar. 10 M.		+0.03	
29 H.		—0.02	18 H.	0.48	23 S.		+0.09	
April 4 H.		+0.04	25 S.	0.51	25 S.		+0.02	
1864 Mar. 14 S.		—0.06	1863 May 2 S.	0.37	27 M.		+0.02	
19 R.		—0.06	1864 Mar. 14 S.	0.49	April 5 M.		+0.01	
21 S.		—0.17	19 R.	0.46	8 M.		—0.07	
April 7 R.		—0.18	April 9 R.	0.52	13 M.		+0.16	
9 R.		—0.13	16 R.	0.44	17 M.		+0.05	
16 R.		—0.19	21 S.	0.44	18 S.		+0.03	
1865 Mar. 10 M.		—0.02	May 3 S.	0.52	19 M.		—0.08	
17 M.		—0.05	4 S.	0.44	May 10 S.		—0.02	
23 S.		+0.04	5 S.	0.43	June 6 S.		+0.05	
27 M.		+0.05	6 S.	0.46	8 S.		+0.06	
28 M.		+0.08	1865 Mar. 4 S.	0.47	13 S.		—0.03	
April 5 M.		+0.03	10 M.	0.43	Mean		+0.017	
8 M.		—0.02	17 M.	0.45	N.A.		31.538	
11 S.		—0.09	23 S.	0.45	Mean A.R. 1865.0		10 ^h 12 ^m 31 ^s .555	
13 M.		+0.10	27 M.	0.45				
14 S.		—0.02	Mean A.R. 1865.0					
May 24 S.		+0.05	10 ^h 4 ^m 0 ^s .473					
Mean		—0.025	λ URSÆ MAJORIS.			30 CAMELOPARDALI H.		
C. des T.		4.83	1862 April 4 H.	^{h.} 10 ^{m.} 8 ^{s.} 56.64	1862 April 7 S.		—0.78	
Mean A.R. 1865.0		9 ^h 45 ^m 4 ^s .805	7 S.	56.66	16 H.		0.00	
π LEONIS. N.A.			12 H.	56.63	28 S.		+0.84	
1862 Mar. 29 H.		+0.08	16 H.	56.58	1863 Mar. 9 S.		—0.27	
April 4 H.		+0.07	18 H.	56.72	May 3 S.		—0.28	
25 S.		+0.13	25 S.	56.79	5 S.		—0.23	
1864 Mar. 19 R.		+0.07	1863 April 9 S.	56.54	6 S.		+0.03	
April 9 R.		—0.01	18 S.	56.62	1865 Mar. 25 S.		+0.22	
16 R.		+0.03	May 2 S.	56.71	April 3 M.		—0.41	
1865 Mar. 10 M.		+0.16	1864 Mar. 19 R.	56.61	13 M.		+0.12	
17 M.		+0.05	May 3 S.	56.78	14 S.		+0.18	
23 S.		+0.05	4 S.	56.88	17 M.		—0.42	
25 S.		+0.02	5 S.	56.69	24 M.		—0.31	
27 M.		+0.08	6 S.	56.55	25 M.		—0.59	
28 M.		+0.04	1865 Mar. 10 M.	56.69	Mean		—0.136	
April 5 M.		+0.01	17 M.	56.67	T.H.S.		19.36	
8 M.		+0.07	23 S.	56.66	Mean A.R. 1865.0		10 ^h 14 ^m 19 ^s .224	
13 M.		+0.11	25 S.	56.69				
14 S.		.00	27 M.	56.59	30 CAMELOP. H. SUB POLO.			
Mean		.060	28 M.	56.72	1862 Sept. 10 S.		—0.66	
N.A.		4.633	April 5 M.	56.53	23 S.		—0.60	
Mean A.R. 1865.0		9 ^h 53 ^m 4 ^s .693	8 M.	56.60	Oct. 7 S.		—0.03	
			Mean A.R. 1865.0		Nov. 3 S.		+0.48	
			10 ^h 8 ^m 56 ^s .661					

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1862 Dec. 11 S.		+0.21	1865 Mar. 25 S.		+0.02	1863 April 9 S.		0.00
1863 Sept. 29 S.		+0.32	27 M.		+0.07	1864 April 16 R.		+0.05
Nov. 3 S.		+0.62	April 3 M.		+0.09	30 R.		+0.06
Dec. 7 S.		+1.38	5 M.		-0.05	May 6 S.		+0.05
10 S.		+0.12	8 M.		-0.05	1865 Mar. 27 M.		+0.12
1864 Sept. 16 S.		-0.03	13 M.		+0.06	April 3 M.		+0.12
Oct. 7 S.		+0.28	Mean		+0.024	5 M.		+0.02
11 S.		-0.08	N.A.		42.058	8 M.		+0.11
Mean		+0.168	Mean A.R. 1865.0			12 M.		+0.15
T.H.S.		19.36	10 ^h 25 ^m 42 ^s .082			Mean		+0.079
Mean A.R. 1865.0						N.A.		9.504
10 ^h 14 ^m 19 ^s .528						Mean A.R. 1865.0		
						10 ^h 42 ^m 9 ^s .583		
μ HYDRÆ.			BRADLEY 1458 = 193 CAMEL- OPARDALI B.					
1862 Mar. 27 H.	10 19	33.80	1863 Mar. 6 S.	10 29	59.48	β URSÆ MAJORIS.		
29 H.		33.76	April 9 S.		58.94	1862 Mar. 29 H.	10 53	40.36
April 4 H.		33.81	1864 April 30 R.		58.61	April 4 H.		40.46
12 H.		33.91	May 3 S.		59.16	7 S.		40.36
16 H.		33.80	6 S.		59.07	12 H.		40.40
18 H.		33.84	1865 Mar. 10 M.		59.46	16 H.		40.30
25 S.		33.84	25 S.		59.10	18 H.		40.32
1863 Mar. 6 S.		33.95	27 M.		59.24	19 S.		40.32
April 9 S.		33.68	April 5 M.		58.47	25 S.		40.48
1864 April 9 R.		33.83	11 S.		59.08	30 H.		40.29
May 3 S.		33.77	12 M.		59.92	May 7 S.		40.38
6 S.		33.79	17 M.		58.52	Oct. 5 S.		40.42
1865 Mar. 10 M.		33.81	24 M.		58.88	1863 May 9 S.		40.49
23 S.		33.81	25 M.		59.01	19 S.		40.53
27 M.		33.77	Mean A.R. 1865.0			1864 April 9 R.		40.46
April 3 M.		33.74	10 ^h 29 ^m 59 ^s .067			16 R.		40.49
5 M.		33.78				30 R.		40.34
8 M.		33.80	BRADLEY 1458 = 193 CAMELO- PAR. B. SUB POLO.			Mean A.R. 1865.0		
13 M.		33.77				10 ^h 53 ^m 40 ^s .400		
17 M.		33.73	1863 Nov. 3 S.	10 29	59.23	β URSÆ MAJORIS. Sub Polo.		
18 S.		33.77	1864 Sept. 10 S.		59.24	1863 Sept. 30 S.	10 53	40.30
19 M.		33.78	16 S.		59.02	Dec. 9 S.		40.57
Mean A.R. 1865.0			17 S.		59.59	23 S.		40.80
10 ^h 19 ^m 33 ^s .797			Nov. 11 M.		59.22	1864 Sept. 10 S.		40.54
			14 S.		59.90	16 S.		40.44
ρ LEONIS N.A.			Mean A.R. 1865.0			26 S.		40.92
1862 Mar. 29 H.		+0.04	10 ^h 29 ^m 59 ^s .367			Oct. 7 S.		40.55
April 4 H.		+0.06				25 S.		40.56
16 H.		+0.04	ι LEONIS. N.A.			26 S.		40.46
25 S.		+0.12	1862 Mar. 29 H.		+0.04	Mean A.R. 1865.0		
1863 April 9 S.		-0.03	April 4 H.		+0.14	10 ^h 53 ^m 40 ^s .571		
1864 April 16 R.		-0.10	7 S.		+0.05			
May 3 S.		+0.06	12 H.		+0.09			
6 S.		+0.03	16 H.		+0.10			
1865 Mar. 10 M.		+0.04						
23 S.		-0.01						

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
α URSÆ MAJORIS. B.J.			χ LEONIS. N.A.			δ LEONIS. N.A.		
1862 Mar. 29	H.	0.00	1862 Mar. 26	H.	+0.05	1862 Mar. 26	S.	+0.05
April 4	H.	+0.11	29	H.	+0.06	29	H.	—0.03
7	S.	+0.08	April 7	S.	+0.04	April 25	S.	+0.09
12	H.	+0.23	12	H.	+0.10	26	H.	—0.04
16	H.	—0.01	16	H.	+0.04	30	H.	—0.02
18	H.	+0.23	24	H.	+0.07	1863 Mar. 6	S.	+0.04
26	H.	+0.07	25	S.	+0.13	1864 May 6	S.	+0.08
30	H.	+0.08	May 7	S.	+0.05	June 7	S.	—0.05
Oct. 5	S.	+0.16	1864 April 16	R.	+0.08	13	S.	+0.06
1863 Mar. 6	S.	+0.28	30	R.	+0.02	1865 Mar. 25	S.	+0.04
May 9	S.	+0.19	May 6	S.	+0.07	April 3	M.	+0.09
19	S.	+0.16	19	S.	+0.14	5	M.	—0.09
1864 April 9	R.	+0.15	April 3	M.	+0.06	13	M.	+0.13
16	R.	—0.05	5	M.	+0.12	May 3	M.	—0.03
30	R.	+0.09	8	M.	+0.07	Mean		+0.023
1865 Mar. 10	M.	+0.35	12	M.	+0.03	N.A.		55.499
27	M.	+0.10	13	M.	—0.03	Mean A.R. 1865.0		11 ^h 6 ^m 55 ^s .522
April 3	M.	+0.13	May 3	M.	—0.15			
5	M.	0.00	10	S.	+0.08			
8	M.	—0.03	Mean		+0.054			
Mean		+0.120	N.A.		3.107			
B.J.		22.131	Mean A.R. 1865.0		10 ^h 58 ^m 3 ^s .161			
Mean A.R. 1865.0		10 ^h 55 ^m 22 ^s .251						
α URSÆ MAJORIS. Sub Polo.			ψ URSÆ MAJORIS.			δ CRATERIS. N.A.		
1863 Jan. 1	S.	+0.04	1862 Mar. 26	S.	3.74	1862 Mar. 26	S.	+0.08
Sept. 17	S.	+0.08	29	H.	3.68	April 7	S.	+0.04
30	S.	—0.03	April 4	H.	3.77	16	H.	+0.08
Dec. 9	S.	+0.24	12	H.	3.82	25	S.	+0.20
15	S.	+0.08	16	H.	3.74	26	H.	+0.08
23	S.	+0.40	19	S.	3.77	30	H.	+0.06
1864 Sept. 10	S.	+0.07	26	H.	3.79	May 7	S.	+0.08
16	S.	+0.16	30	H.	3.72	15	S.	—0.04
26	S.	+0.21	1863 May 19	S.	3.76	1863 Mar. 6	S.	+0.01
27	S.	+0.34	1864 April 16	R.	3.68	1864 April 16	R.	—0.14
30	S.	+0.26	30	R.	3.71	22	S.	+0.08
Oct. 7	S.	+0.24	1865 Mar. 25	S.	3.85	May 6	S.	+0.13
17	S.	—0.01	27	M.	3.75	19	R.	+0.08
25	S.	+0.12	April 3	M.	3.75	1865 Mar. 25	S.	+0.01
26	S.	+0.01	5	M.	3.79	April 3	M.	—0.01
Nov. 10	M.	+0.36	8	M.	3.78	5	M.	+0.15
11	M.	—0.34	13	M.	3.74	8	M.	—0.05
Mean		+0.131	14	S.	3.67	13	M.	+0.16
B. J.		22.131	17	M.	3.80	14	S.	.00
Mean A.R. 1865.0		10 ^h 55 ^m 22 ^s .262	Mean A.R. 1865.0		11 ^h 2 ^m 3 ^s .753	17	M.	+0.20
						Mean		+0.060
						N.A.		35.529
						Mean A.R. 1865.0		11 ^h 12 ^m 35 ^s .598
						γ CRATERIS.		
						1862 Mar. 26	S.	8.46
						29	H.	8.42

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
γ URSÆ MAJORIS. B.J.			1864 May 6 S. ^{h. m. s.} 11 53 57.43			1862 Dec. 28 S. ^{s.} +0.09		
1862 Mar. 26 S.		^{s.} -0.13	19 R.		57.23	1864 April 22 S.		+0.02
29 H.		-0.11	23 S.		57.29	30 R.		+0.09
April 7 S.		+0.03	27 S.		57.26	May 23 S.		+0.11
12 H.		-0.06	29 R.		57.18	29 R.		+0.13
16 H.		-0.12	1865 April 13 M.		57.33	1865 April 8 S.		+0.04
26 H.		-0.17	14 S.		57.30	13 M.		+0.13
30 H.		-0.19	17 M.		57.30	17 M.		+0.12
May 7 S.		-0.03	18 S.		57.34	18 S.		+0.19
15 S.		-0.08	24 M.		57.27	24 M.		+0.12
Dec. 28 S.		0.00	25 M.		57.34	25 M.		+0.07
1863 May 23 S.		+0.03	May 3 M.		57.28	May 3 M.		+0.06
1864 April 21 R.		-0.07	10 S.		57.32	13 S.		+0.07
22 S.		-0.20	13 S.		57.24	15 M.		+0.04
30 R.		-0.08	15 M.		57.30	23 S.		+0.13
May 6 S.		+0.09	23 M.		57.38	26 M.		+0.15
18 R.		-0.19	24 S.		57.29	Mean		+0.090
27 S.		-0.20	25 M.		57.31	N.A.		11.124
29 R.		-0.16	26 M.		57.36	Mean A.R. 1865.0		12 ^h 3 ^m 11 ^s .214
1865 April 24 M.		-0.04	Mean A.R. 1865.0		11 ^h 53 ^m 57 ^s .304	Mean A.R. 1865.0		12 ^h 3 ^m 11 ^s .214
25 M.		-0.04						
May 3 M.		-0.05	GROOMBRIDGE 1850.			207 CAMELOPARDALI B.		
15 M.		0.00	1865 Sept. 25 M. ^{h. m. s.} 11 57 53.37			1865 May 10 S. ^{h. m. s.} 12 4 52.08		
23 M.		-0.07	Oct. 7 S.		53.80	13 S.		52.02
25 M.		-0.08	24 S.		54.76	15 M.		51.78
Mean		-0.080	Nov. 1 S.		53.87	18 S.		52.17
B.J.		43.048	11 M.		53.52	23 M.		51.84
Mean A.R. 1865.0		11 ^h 46 ^m 42 ^s .968	Dec. 21 M.		51.73	24 S.		51.86
			22 M.		52.13	25 M.		51.96
			23 M.		53.32	Mean A. R. 1865.0		12 ^h 4 ^m 51 ^s .959
GR. 1845.			1866 Jan. 4 S.		54.30			
1865 Sept. 13 M. ^{h. m. s.} 11 53 11.42			Mean A.R. 1865.0		11 ^h 57 ^m 53 ^s .422	SUB POLO.		
25 M.		11.03				1865 Sept. 13 M. ^{h. m. s.} 12 4 51.95		
29 M.		10.62	α CORVI.			29 M.		51.54
Oct. 6 M.		11.14	1865 May 23 M. ^{h. m. s.} 12 1 27.42			Oct. 6 M.		51.10
16 M.		11.26	24 M.		27.39	13 M.		52.44
Nov. 1 S.		11.03	25 S.		27.38	16 M.		52.26
11 M.		11.75	26 M.		27.42	23 M.		52.55
Dec. 21 M.		10.28	Mean A.R. 1865.0		12 ^h 1 ^m 27 ^s .402	30 M.		51.78
22 M.		10.59				1866 Jan. 4 S.		52.16
23 M.		10.93	ϵ CORVI. N.A.			Mean A.R. 1865.0		12 ^h 4 ^m 51 ^s .972
Mean A.R. 1865.0		11 ^h 53 ^m 11 ^s .005	1862 Mar. 26 S.		+0.10	γ CORVI.		
			April 30 H.		+0.13	1862 Mar. 29 H. ^{h. m. s.} 12 8 51.98		
π VIRGINIS.			May 7 S.		+0.12	April 7 S.		52.02
1862 April 23 S. ^{h. m. s.} 11 53 57.40			17 S.		-0.08			
26 H.		57.26	23 S.		+0.06			
May 7 S.		57.28						

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1862 April 25 S.	^{h.} 12 ^{m.} 8	^{s.} 52.12	5 URSÆ MIN. B. Sub Polo.			1863 May 25 M.		^{s.} +.13
30 H.		51.99				Mean		+ .110
May 23 S.		52.09	1862 Nov. 10 S.		^{s.} +1.37	N.A.		59.920
Dec. 10 S.		52.14	Dec. 28 S.		+0.81	Mean A.R. 1865.0		12 ^h 13 ^m 0 ^s .030
1863 Mar. 6 S.		52.03	29 S.		+0.54			
1864 Jan. 8 S.		52.05	1863 Aug. 6 S.		+0.31			
Mar. 24 S.		52.01	10 S.		+0.41			
April 21 R.		52.10	30 S.		+1.63			
29 S.		52.10	Sept. 24 S.		-0.76			
30 R.		51.99	28 S.		-0.57			
May 9 R.		52.01	29 S.		-1.47			
18 R.		52.06	30 S.		-0.54			
19 R.		52.04	Oct. 22 S.		-1.49			
22 R.		51.95	Nov. 2 S.		-0.52			
23 S.		52.07	3 S.		+0.53			
29 R.		52.01	4 S.		+0.57			
1865 April 8 R.		52.00	26 S.		-2.01			
13 M.		52.01	30 S.		-1.64			
Mean A.R. 1865.0		12 ^h 8 ^m 52 ^s .039	Dec. 26 S.		+0.56			
			1864 Sept. 30 S.		+0.38			
			Oct. 17 S.		-0.41			
			Nov. 30 M.		-0.57			
			Dec. 9 M.		+1.79			
			20 S.		+1.23			
			30 M.		-0.41			
			1865 Dec. 6 S.		-1.09			
			Mean		-0.056			
			T.H.S.		52.79			
			Mean A.R. 1865.0		12 ^h 12 ^m 52 ^s .734			
			2 H. CANUM.					
			1865 May 23 M.	^{h.} 12 ^{m.} 9	^{s.} 42.73			
			24 S.		42.62			
			25 M.		42.61			
			26 M.		42.70			
			June 2 S.		42.78			
			Mean A.R. 1865.0		12 ^h 9 ^m 42 ^s .688			
			5 URSÆ MINORIS BODE.					
			1862 Mar. 26 S.		^{s.} -0.95			
			April 7 S.		0.00			
			16 H.		-0.27			
			25 S.		-0.83			
			May 17 S.		-0.93			
			Dec. 28 S.		-1.81			
			1863 April 9 S.		-0.39			
			1864 Mar. 24 S.		-0.24			
			April 21 R.		-0.22			
			29 S.		-0.60			
			30 R.		-0.06			
			May 9 R.		+0.63			
			27 S.		-0.61			
			Mean		-0.483			
			T.H.S.		52.79			
			Mean A.R. 1865.0		12 ^h 12 ^m 52 ^s .307			
			4 URSÆ MIN. B. Sub Polo.					
			1862 May 25 M.		^{s.} +.13			
			Mean		+ .110			
			N.A.		59.920			
			Mean A.R. 1865.0		12 ^h 13 ^m 0 ^s .030			
			6 URSÆ MINORIS BODE.					
			1862 Mar. 26 S.		^{s.} +0.11			
			April 7 S.		+1.01			
			29 S.		-0.18			
			May 7 S.		+0.70			
			15 S.		-0.80			
			23 S.		+0.86			
			Dec. 10 S.		+0.74			
			28 S.		-1.77			
			1864 Jan. 8 S.		-1.32			
			April 22 S.		+1.93			
			May 6 S.		+1.58			
			18 R.		-0.61			
			22 R.		-2.07			
			29 R.		+0.42			
			Mean		+0.043			
			T.H.S.		19.56			
			Mean A.R. 1865.0		12 ^h 14 ^m 19 ^s .603			
			6 URSÆ MIN. B. Sub Polo.					
			1862 Sept. 23 S.		^{s.} -1.03			
			Dec. 11 S.		+0.55			
			28 S.		+0.89			
			29 S.		+1.04			
			1863 Jan. 2 S.		+1.21			
			3 S.		+0.14			
			5 S.		+0.75			
			Oct. 22 S.		-0.74			
			Nov. 2 S.		+2.54			
			3 S.		+1.29			
			30 S.		-5.02			
			Dec. 26 S.		+0.48			
			1864 Jan. 9 S.		-0.05			
			Oct. 7 S.		+4.07			
			Nov. 29 M.		+0.50			
			Dec. 30 M.		+0.35			
			1865 Nov. 1 S.		-0.28			
			Mean		+0.395			
			T.H.S.		19.56			
			Mean A.R. 1865.0		12 ^h 14 ^m 19 ^s .955			
			7 VIRGINIS. N.A.					
			1862 Mar. 29 H.		^{s.} +.04			
			April 26 H.		+0.01			
			30 H.		+0.11			
			1864 May 18 R.		+0.09			
			19 R.		+0.13			
			23 S.		+0.10			
			29 R.		+0.07			
			1865 April 13 M.		+0.14			
			14 S.		+0.05			
			17 M.		+0.11			
			18 S.		+0.12			
			24 M.		+0.17			
			25 M.		+0.23			
			May 3 M.		-0.01			
			10 S.		+0.07			
			13 S.		+0.16			
			15 M.		+0.18			
			18 S.		+0.17			
			23 M.		+0.13			

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
12 COMÆ.			1865 April 13 M. ^{h. m. s.} 12 20 12.45			1864 May 23 S. —.15		
1865 May 23 M. ^{h. m. s.} 12 15 43.05			14 S. 12.37			27 S. —.16		
24 S. 42.95			17 M. 12.37			29 R. —.07		
25 M. 42.95			18 S. 12.41			June 7 S. —.12		
26 M. 43.01			24 M. 12.34			Mean —.099		
June 1 S. 43.06			May 3 M. 12.38			<i>C. des T.</i> 53.10		
2 S. 43.08			15 M. 12.45			Mean A.R. 1865.0		
7 S. 43.01			Mean A.R. 1865.0			12 ^h 22 ^m 53 ^s .001		
Mean A.R. 1865.0			12 ^h 20 ^m 12 ^s .363			4 DRACONIS.		
12 ^h 15 ^m 43 ^s .016			16 COMÆ.			1865 May 24 S. ^{h. m. s.} 12 24 10.39		
13 COMÆ.			1865 May 24 S. ^{h. m. s.} 12 20 14.07			25 M. 10.58		
1865 May 24 S. ^{h. m. s.} 12 17 31.96			June 1 S. 14.18			30 S. 10.74		
25 M. 31.98			2 S. 14.12			June 1 S. 11.06		
26 M. 31.99			Mean A.R. 1865.0			2 S. 10.75		
June 1 S. 32.14			12 ^h 20 ^m 14 ^s .123			7 S. 10.90		
2 S. 32.09			17 COMÆ.			Mean A.R. 1865.0		
7 S. 32.05			1865 May 23 M. ^{h. m. s.} 12 22 10.11			12 ^h 24 ^m 10 ^s .737		
Mean A.R. 1865.0			24 S. 10.02			η CORVI.		
12 ^h 17 ^m 32 ^s .035			25 M. 10.05			1862 Mar. 26 S. ^{h. m. s.} 12 25 7.13		
14 COMÆ.			26 M. 10.06			April 16 H. 7.08		
1865 May 23 M. ^{h. m. s.} 12 19 38.91			30 S. 10.04			25 S. 7.15		
24 S. 38.84			June 1 S. 10.22			29 S. 7.05		
25 M. 38.79			2 S. 9.96			30 H. 7.10		
26 M. 38.80			Mean A.R. 1865.0			May 7 S. 7.05		
June 1 S. 38.91			12 ^h 22 ^m 10 ^s .066			17 S. 6.97		
2 S. 38.85			δ CORVI. C. des T.			23 S. 7.11		
Mean A.R. 1865.0			1862 Mar. 26 S. —.08			Dec. 10 S. 7.10		
12 ^h 19 ^m 38 ^s .850			April 16 H. —.11			28 S. 7.11		
15 COMÆ.			25 S. —.07			1864 Jan. S. 7.18		
1862 April 26 H. ^{h. m. s.} 12 20 12.22			26 H. —.15			April 21 R. 7.07		
29 S. 12.32			29 S. —.04			22 S. 7.01		
30 H. 12.27			30 H. —.15			29 S. 7.03		
May 14 H. 12.45			May 7 S. —.12			30 R. 6.95		
15 S. 12.44			15 S. —.11			May 9 R. 7.00		
23 S. 12.50			23 S. —.10			18 R. 7.03		
Dec. 10 S. 12.36			Dec. 10 S. —.10			22 R. 7.07		
28 S. 12.35			1864 Jan. 8 S. —.14			23 S. 7.19		
1864 April 29 S. 12.35			April 22 S. —.07			27 S. 7.04		
30 R. 12.26			29 S. —.04			29 R. 7.02		
May 6 S. 12.44			30 R. —.15			1865 April 4 S. 7.20		
22 R. 12.16			May 9 R. —.11			Mean A.R. 1865.0		
27 S. 12.35			18 R. —.04			12 ^h 25 ^m 7 ^s .075		
29 R. 12.39			22 R. —.01			5 H. CANUM.		
						1865 May 23 M. ^{h. m. s.} 12 26 59.69		
						24 S. 59.67		

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1865 May 25	M.	12 ^h 26 ^m 59.67 ^s	γ VIRGINIS. N.A.			30 COMÆ.		
26	M.	59.69	1862 Mar. 26	S.	+0.15	1865 May 23	M	12 ^h 42 ^m 42.69 ^s
30	S.	59.76	April 25	S.	+0.21	24	S.	42.63
June 1	S.	59.83	26	H.	+0.05	25	M.	42.63
2	S.	59.77	30	H.	+0.04	30	S.	42.71
Mean A.R. 1865.0		12 ^h 26 ^m 59.726	May 14	H.	+0.11	June 1	S.	42.71
β CORVI. N.A.			17	S.	-0.07	2	S.	42.72
1862 Mar. 26	S.	+0.08	Dec. 10	S.	+0.06	6	S.	42.68
April 30	H.	+0.20	1864 April 21	S.	-0.01	7	S.	42.80
May 7	S.	+0.21	22	S.	.00	8	S.	42.76
17	S.	+0.20	29	S.	+0.17	Mean A.R. 1865.0		12 ^h 42 ^m 42.703
23	S.	+0.18	May 3	S.	+0.09	31 COMÆ.		
Dec. 10	S.	+0.20	4	S.	+0.03	1865 May 23	M.	12 ^h 45 ^m 7.24 ^s
28	S.	+0.25	6	S.	+0.01	24	S.	7.18
1864 April 21	R.	+0.19	22	R.	-0.06	25	M.	7.22
22	S.	+0.12	23	S.	+0.07	30	S.	7.34
29	S.	+0.17	29	R.	-0.03	June 1	S.	7.40
30	R.	+0.19	June 4	S.	-0.01	2	S.	7.27
May 4	S.	+0.22	1865 May 18	S.	+0.10	6	S.	7.23
9	R.	+0.25	June 1	S.	+0.14	7	S.	7.29
18	R.	+0.33	Mean		+0.055	8	S.	7.25
22	R.	+0.27	N.A.		49.228	Mean A.R. 1865.0		12 ^h 45 ^m 7.269
23	S.	+0.26	Mean A.R. 1865.0		12 ^h 34 ^m 49.283	ϵ URSÆ MAJORIS. C. des T.		
27	S.	+0.23	ρ VIRGINIS.			1862 Mar. 26	S.	+0.05
June 2	R.	+0.34	1865 May 23	M.	12 ^h 35 ^m 3.28 ^s	April 7	S.	-0.19
10	S.	+0.36	25	M.	3.11	16	H.	-0.13
1865 April 4	S.	+0.21	26	M.	3.19	26	H.	-0.16
24	M.	+0.21	30	S.	3.21	May 17	S.	-0.11
May 3	M.	+0.29	June 2	S.	3.03	Dec. 28	S.	-0.04
10	S.	+0.24	Mean A.R. 1865.0		12 ^h 35 ^m 3.164	1864 Jan. 8	S.	-0.17
15	M.	+0.28	60 B. CANUM.			April 30	R.	-0.31
Mean		+0.228	1863 May 23	M.	12 ^h 38 ^m 46.88 ^s	May 6	S.	-0.06
N.A.		17.852	24	S.	46.74	9	R.	-0.09
Mean A.R. 1865.0		12 ^h 27 ^m 18.080	25	M.	46.87	29	R.	-0.14
24 COMÆ.			26	M.	46.80	Mean		-0.123
1865 May 24	S.	12 ^h 28 ^m 21.43 ^s	June 2	S.	46.93	C. des T.		4.94
25	M.	21.43	Mean A.R. 1865.0		12 ^h 38 ^m 46.848	Mean A.R. 1865.0		12 ^h 48 ^m 4.817
26	M.	21.42	32 CAMELOPARDALI H. foll. A.E.			1865 May 24	S.	-0.33
30	S.	21.52	1863 May 23	M.	12 ^h 38 ^m 46.88 ^s	30	S.	-0.11
June 1	S.	21.50	24	S.	46.74	June 1	S.	+0.48
2	S.	21.35	25	M.	46.87	2	S.	+0.09
Mean A.R. 1865.0		12 ^h 28 ^m 21.442	26	M.	46.80	6	S.	+0.05

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
Mean		^{s.} +0.036	12 CANUM. N.A.			1864 June 13	S.	^{s.} -0.12
A.E.		10.292				14	S.	-0.11
Mean A.R. 1865.0			1862 April 16	H.	^{s.} -0.02	17	S.	+0.02
12 ^h 48 ^m 10 ^s .328			26	H.	+0.03	1865 June 1	S.	+0.09
			May 14	H.	+0.18	7	S.	+0.02
			1864 April 29	S.	+0.15	Mean		-0.050
			30	R.	+0.01	C. des T.		27.47
			May 3	S.	+0.19	Mean A.R. 1865.0		
			4	S.	+0.07	12 ^h 55 ^m 27 ^s .420		
			6	S.	+0.16			
32 CAMELOPARDALI H. Sub Polo.			18	R.	+0.21			
1865 Sept. 27	M.	^{s.} 0.00	19	R.	+0.05			
29	M.	-0.20	22	R.	+0.04			
30	S.	+0.28	23	S.	+0.03			
Oct. 13	M.	-0.64	31	S.	+0.22	14 CANUM.		
16	M.	-0.23	June 4	S.	+0.22	1865 May 23	M. 12 59.	^{h.} ^{m.} ^{s.} 25.46
23	M.	-0.51	7	S.	+0.18	30	S.	25.53
24	S.	-0.51	10	S.	+0.15	June 1	S.	25.72
25	M.	-0.10	13	S.	+0.10	3	S.	25.52
Nov. 1	S.	-0.35	14	S.	+0.19	8	S.	25.59
14	M.	-0.48	17	S.	+0.22	Mean A.R. 1865.0		
Dec. 1	M.	-0.96	1865 April 13	M.	+0.15	12 ^h 59 ^m 25 ^s .564		
Mean		-0.364	24	M.	+0.08			
A.E.		10.292	Mean		+0.124			
Mean A.R. 1865.0			N.A.		42.405			
12 ^h 48 ^m 9 ^s .928			Mean A.R. 1865.0					
			12 ^h 49 ^m 42 ^s .529					
δ VIRGINIS.			ε VIRGINIS. C. des T.					
1864 April 30	R. 12 48	^{h.} ^{m.} ^{s.} 48.20	1862 Mar. 26	S.	^{s.} -0.02	1862 May 17	S.	-0.01
May 18	R.	48.39	April 16	H.	-0.02	Dec. 28	S.	+0.03
19	R.	48.31	25	S.	+0.06	1864 April 21	S.	-0.04
23	S.	48.22	26	H.	-0.19	22	S.	+0.13
29	R.	48.32	30	H.	-0.05	29	S.	+0.06
31	S.	48.25	May 14	H.	-0.01	May 3	S.	+0.10
June 4	S.	48.24	17	S.	-0.05	6	S.	+0.06
7	S.	48.25	23	S.	-0.06	9	R.	+0.10
10	S.	48.10	Dec. 10	S.	.00	18	S.	+0.23
13	S.	48.31	28	S.	-0.12	19	S.	+0.27
14	S.	48.26	1864 Jan. 8	S.	-0.15	28	R.	+0.14
17	S.	48.43	April 21	S.	-0.10	29	R.	+0.09
1865 April 13	M.	48.27	22	S.	-0.06	31	S.	+0.06
14	S.	48.22	29	S.	+0.01	June 7	S.	+0.13
24	M.	48.25	30	R.	-0.12	8	S.	+0.07
May 3	M.	48.37	May 3	S.	-0.09	10	S.	-0.06
10	S.	48.22	6	S.	-0.04	13	S.	+0.01
15	M.	48.28	9	R.	-0.01	14	S.	+0.05
23	M.	48.33	22	R.	-0.06	17	S.	+0.04
25	M.	48.25	23	S.	-0.13	1865 June 1	S.	+0.27
June 20	S.	48.25	28	R.	.00	3	S.	+0.06
Mean A.R. 1865.0			June 2	R.	-0.05	Mean		+0.085
12 ^h 48 ^m 48 ^s .272			8	S.	-0.03	N.A.		57.693
						Mean A.R. 1865.0		
						13 ^h 2 ^m 57 ^s .778		

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
43 COMÆ.			1864 May 3 S. —0.79			1864 Jan. 12 S. +0.12		
1862 May 17 S.	13	5 34.46	4 S. —0.60			14 S. —0.29		
1864 May 29 R.		34.26	5 S. —0.85			16 S. —0.44		
June 8 S.		34.32	18 S. —0.53			21 S. —0.42		
10 S.		34.15	27 S. —0.29			Oct. 17 S. —0.71		
13 S.		34.23	29 R. —0.60			Nov. 11 S. —0.26		
14 S.		34.28	31 S. +0.33			14 S. —0.60		
17 S.		34.38	June 2 R. —0.35			16 S. +0.68		
1865 April 13 S.		34.39	8 S. —0.58			25 M. —0.15		
14 S.		34.30	10 S. —0.21			30 M. —0.69		
17 S.		34.34	13 S. —0.76			Dec. 14 S. —0.09		
18 S.		34.27	1865 April 17 S. —0.26			1865 Jan. 12 S. —0.18		
24 M.		34.27	May 13 S. —0.07			Nov. 1 S. —0.34		
May 3 M.		34.26	15 M. +0.28			Dec. 6 S. +0.32		
June 1 S.		34.36	23 S. —0.44			Mean —0.247		
Mean A.R. 1865.0			24 S. —0.68			T.H.S. 12.08		
13 ^h 5 ^m 34 ^s .305			25 M. —0.91					
ι CENTAURI.			26 M. —0.26			Mean A.R. 1865.0		
1862 May 17 S.	13	13 1.04	30 S. —0.89			13 ^h 20 ^m 11 ^s .833		
1864 May 29 R.		1.46	31 S. +0.24					
31 S.		1.19	June 2 S. —0.33			69 H. URSÆ.		
June 10 S.		0.82	3 S. —0.28			1865 May 25 M.	13 23 29.43	
13 S.		1.15	Mean —0.425			26 M.	29.49	
14 S.		1.06	T.H.S. 12.08			June 3 S.	29.61	
1865 May 3 M.		1.12	Mean A.R. 1865.0			Mean A.R. 1865.0		
13 S.		1.12	13 ^h 20 ^m 11 ^s .655			13 ^h 23 ^m 29 ^s .510		
15 M.		1.16	214 CAMELOP. B. SUB POLO.			h VIRGINIS.		
25 M.		1.15	1862 Dec. 10 S. —0.62			1865 May 23 S.	13 25 51.70	
30 S.		1.16	24 S. —1.27			25 M.	51.64	
Mean A.R. 1865.0			1863 Jan. 2 S. —0.51			26 S.	51.74	
13 ^h 13 ^m 1 ^s .130			3 S. —0.63			June 2 S.	51.67	
214 CAMELOPARDALI B.			Sept. 9 S. —0.27			3 S.	51.68	
1862 Mar. 26 S.		—1.16	Oct. 28 S. +0.02			12 S.	51.61	
April 16 H.		—0.74	29 S. —0.33			Mean A.R. 1865.0		
25 S.		—0.62	Nov. 3 S. —0.16			13 ^h 25 ^m 51 ^s .673		
29 S.		+0.20	4 S. —0.65			78 o VIRGINIS.		
May 14 H.		—1.07	23 S. +0.34			1865 May 23 S.	13 27 17.50	
17 S.		—0.19	26 S. +1.22			25 M.	17.50	
23 S.		—0.31	30 S. +0.10			26 M.	17.65	
Dec. 28 S.		—1.30	Dec. 9 S. —0.61			June 2 S.	17.61	
1863 April 9 S.		—0.14	15 S. —0.50			3 S.	17.60	
May 1 S.		—0.13	21 S. —0.77			12 S.	17.51	
9 S.		—0.05	23 S. —0.44			Mean A.R. 1865.0		
June 4 S.		—0.34	26 S. —0.27			13 ^h 27 ^m 17 ^s .562		
6 S.		+0.16	29 S. +0.13					
1864 April 21 S.		—0.31	30 S. +0.04					
29 S.		—0.88	1864 Jan. 1 S. +0.99					
			6 S. —1.59					
			9 S. —0.92					
			10 S. +0.57					
			11 S. —0.22					

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
ζ VIRGINIS. N.A.			1 H. BOOTIS.			η URSÆ MAJORIS. B.J.		
1862 April 16	H.	+0.06	1865 May 25	M. 13 22	55.21	1862 May 7	S.	-0.02
29	S.	+0.03	26	M.	55.34	14	H.	+0.13
May 14	H.	0.00	31	S.	55.33	17	S.	-0.07
17	S.	-0.04	3	S.	55.33	23	S.	-0.28
23	S.	+0.04	5	S.	55.29	June 16	S.	-0.09
June 16	S.	+0.02	12	S.	55.26	17	H.	-0.01
17	H.	+0.06	20	S.	55.28	1864 Jan. 8	S.	+0.06
Dec. 28	S.	-0.14	Mean A.R. 1865.0			April 29	S.	-0.01
1864 April 29	S.	+0.15	13 ^h 32 ^m 55 ^s .291			May 3	S.	-0.10
May 3	S.	+0.04				9	R.	-0.12
5	S.	+0.10				19	S.	-0.15
9	R.	0.00				27	S.	-0.06
28	R.	+0.08				28	R.	-0.18
31	S.	-0.03				29	R.	-0.02
June 10	S.	+0.13				June 7	R.	+0.04
13	S.	+0.02				8	S.	-0.04
16	S.	+0.08				16	S.	+0.03
17	S.	+0.07				23	R.	-0.10
23	R.	+0.03				29	M.	+0.01
July 15	S.	+0.13				1865 May 3	M.	+0.06
Mean		+0.042				26	M.	+0.13
N.A.		48.972				Mean		-0.038
Mean A.R. 1865.0						B.J.		13.118
13 ^h 27 ^m 49 ^s .014						Mean A.R. 1865.0		
						13 ^h 42 ^m 13 ^s .080		
17 H. CANUM.			ϵ CENTAURI.			219 CAMELOPARDALI BODE.		
May 23	S. 13 28	46.02	1865 May 25	M. 13 38	1.61	1863 June 2	S. 13 46	21.39
25	M.	45.99	31	S.	1.53	1864 Jan. 6	S.	21.16
26	M.	46.05	June 2	S.	1.51	8	S.	20.36
June 2	S.	46.02	3	S.	1.56	April 29	S.	20.57
3	S.	46.05	5	S.	1.58	May 3	S.	20.63
12	S.	46.08	12	S.	1.48	4	S.	20.94
20	S.	46.11	13	S.	1.62	9	R.	20.57
Mean A.R. 1865.0			Mean A.R. 1865.0			19	S.	20.66
13 ^h 28 ^m 46 ^s .046			13 ^h 38 ^m 1 ^s .556			27	S.	20.86
25 CANUM.						29	R.	20.48
1865 May 23	S. 13 31	27.70				June 7	R.	20.44
25	M.	27.66				8	S.	20.97
26	M.	27.67				16	S.	21.30
31	S.	27.72				Mean A.R. 1865.0		
June 2	S.	27.66				13 ^h 46 ^m 20 ^s .795		
3	S.	27.69				219 CAMELOP. B. Sub Polo.		
5	S.	27.63				1863 Oct. 28	S. 13 46	20.51
12	S.	27.63				Nov. 4	S.	21.64
19	M.	27.66				Dec. 21	S.	20.55
20	S.	27.72				23	S.	21.41
Mean A.R. 1865.0								
13 ^h 31 ^m 27 ^s .674								
21 H. CANUM.								
1865 May 23	S. 13 41	10.44						
26	M.	10.40						
31	S.	10.40						
June 3	S.	10.35						
5	S.	10.38						
12	S.	10.35						
19	M.	10.31						
Mean A.R. 1865.0								
13 ^h 41 ^m 10 ^s .376								

[illegible]

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1863 Sept. 9 S.		^{s.} -1.03	A. BOOTIS.			θ BOOTIS.		
Oct. 28 S.		-0.60	1865 May 25 M.	14 12	^{h. m. s.} 17.35	1862 May 17 S.	14 20	36.16
Nov. 3 S.		+0.52				23 S.		36.11
4 S.		-1.20	June 1 S.		17.42	28 H.		36.21
30 S.		-0.37				June 16 S.		35.96
Dec. 9 S.		-0.19	3 S.		17.40	17 H.		36.22
21 S.		+0.06	5 S.		17.36	1863 May 23 S.		36.29
29 S.		+0.85	12 S.		17.39	1864 April 21 S.		36.07
30 S.		+0.53	19 M.		17.37	May 3 S.		36.10
1864 Jan. 9 S.		+0.27	20 S.		17.42	19 S.		36.07
Dec. 20 M.		-1.09	21 M.		17.40	22 R.		35.93
30 M.		-0.72	23 M.		17.55	28 R.		35.99
Mean		-0.228	24 M.		17.34	29 R.		35.98
T.H.S.		47.52	27 M.		17.43	31 S.		36.08
Mean A.R. 1865.0			28 S.		17.34	June 2 S.		36.04
14 ^h 3 ^m 47 ^s .292			July 3 M.		17.35	6 S.		36.06
42 H. VIRGINIS.			Mean A.R. 1865.0			7 R.		36.12
1865 May 26 M.	14 5	^{h. m. s.} 25.85	14 ^h 12 ^m 17 ^s .390			8 S.		36.06
			18 H. BOOTIS.			17 S.		36.15
June 1 S.		26.11	1865 May 15 M.	14 16	^{h. m. s.} 44.41	1864 June 21 S.		36.04
3 S.		26.00				22 R.		35.94
5 S.		26.04	June 1 S.		44.60	23 S.		36.08
12 S.		25.97	3 S.		44.57	24 S.		35.97
13 S.		25.94	12 S.		44.45	27 M.		36.15
19 M.		25.89	19 M.		44.43	28 M.		36.28
23 M.		25.95	20 S.		44.45	29 M.		36.20
28 S.		25.77	21 M.		44.57	July 4 S.		36.11
Mean A.R. 1865.0			27 M.		44.55	8 S.		36.21
14 ^h 5 ^m 25 ^s .947			27 M.		44.45	Mean A.R. 1865.0		
λ VIRGINIS.			28 S.		44.40	14 ^h 20 ^m 36 ^s .096		
1862 May 14 H.	14 11	48.57	29 S.		44.55	ρ BOOTIS. N.A.		
17 S.		48.43	Mean A.R. 1865.0			1862 May 14 H.		^{s.} +0.03
23 S.		48.62	14 ^h 16 ^m 44 ^s .478			June 11 H.		+0.05
28 H.		48.62	f BOOTIS.			16 S.		-0.01
June 16 S.		48.48	1865 May 25 M.	14 20	^{h. m. s.} 10.62	17 H.		-0.04
1863 May 23 S.		48.49				1864 April 21 S.		-0.02
1864 April 29 S.		48.59	June 1 S.		10.75	May 19 S.		-0.03
May 3 S.		48.58	5 S.		10.74	28 R.		-0.10
18 R.		48.56	13 S.		10.68	June 8 S.		+0.01
19 S.		48.69	19 M.		10.69	16 S.		+0.06
22 R.		48.66	20 S.		10.65	17 S.		+0.09
27 S.		48.60	24 M.		10.53	18 M.		-0.09
28 R.		48.72	27 M.		10.68	21 S.		-0.09
29 R.		48.83	28 S.		10.60	22 R.		-0.12
31 S.		48.54	29 S.		10.73	23 S.		-0.04
June 2 R.		48.72	Mean A.R. 1865.0			24 S.		-0.11
7 R.		48.55	14 ^h 20 ^m 10 ^s .664			29 S.		-0.04
16 S.		48.63	g BOOTIS.			30 S.		-0.01
18 M.		48.61	1862 May 14 H.			July 4 S.		+0.03
21 S.		48.58				5 S.		-0.03
23 S.		48.60	June 11 H.					
Mean A.R. 1865.0			16 S.					
14 ^h 11 ^m 48 ^s .603			17 H.					
			1864 April 21 S.					
			May 19 S.					
			28 R.					
			June 8 S.					
			16 S.					
			17 S.					
			18 M.					
			21 S.					
			22 R.					
			23 S.					
			24 S.					
			29 S.					
			30 S.					
			July 4 S.					
			5 S.					

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1864 July 8 S.		+0.01	π BOOTIS.			ϵ BOOTIS. N.A.		
1865 May 9 S.		-0.09	1865 May 25 M. 14 34		22.95	1862 May 23 S.		+0.13
1865 May 3 S.		-0.10	26 M.		22.99	June 11 H.		+0.09
Mean		-0.034	June 1 S.		23.10	16 S.		+0.10
N.A.		0.714	5 S.		23.15	17 H.		+0.10
Mean A.R. 1865.0			13 S.		23.13	1863 June 3 S.		+0.05
14 ^h 39 ^m 0 ^s .680			19 M.		22.90	1864 April 29 S.		+0.06
γ BOOTIS.			20 S.		23.02	May 5 S.		+0.11
1865 May 25 M. 14 26		38.47	21 M.		22.92	10 S.		-0.03
26 M.		38.45	23 M.		23.09	18 S.		+0.13
June 1 S.		38.59	24 S.		23.04	19 S.		0.00
3 S.		38.51	27 M.		22.98	27 S.		+0.11
20 S.		38.49	28 S.		22.97	28 R.		+0.11
21 M.		38.50	29 S.		23.14	29 R.		+0.03
23 M.		38.58	July 3 M.		22.94	June 4 S.		+0.12
24 M.		38.61	Mean A.R. 1865.0			8 S.		+0.09
27 M.		38.53	14 ^h 34 ^m 23 ^s .023			13 S.		+0.05
28 S.		38.43	μ VIRGINIS.			18 M.		0.00
29 S.		38.60	1862 May 14 H. 14 35		56.92	21 S.		+0.11
July 3 M.		38.52	17 S.		56.76	22 R.		-0.07
Mean A.R. 1865.0			23 S.		56.97	24 S.		-0.02
14 ^h 26 ^m 38 ^s .523			28 H.		56.92	28 S.		+0.13
σ BOOTIS.			June 11 H.		56.84	29 S.		+0.10
1864 June 13 S. 14 28		48.01	16 S.		57.06	30 S.		+0.05
16 S.		48.21	17 H.		56.98	July 4 S.		+0.10
17 S.		48.12	1864 April 21 S.		56.94	8 S.		+0.08
21 S.		48.20	29 S.		56.96	9 S.		+0.09
24 S.		48.02	May 3 S.		56.88	1865 May 30 S.		+0.04
28 M.		48.26	5 S.		56.91	Mean		+0.069
29 S.		48.09	18 R.		56.94	N.A.		5.406
July 4 S.		48.12	19 S.		56.93	Mean A.R. 1865.0		
5 S.		48.15	1864 May 27 S.		56.94	14 ^h 39 ^m 5 ^s .475		
8 S.		48.23	28 R.		56.98	109 VIRGINIS.		
1865 May 3 M.		48.18	29 R.		56.94	1865 May 25 M. 14 39		25.59
15 M.		48.18	31 S.		56.99	26 M.		25.59
25 M.		48.07	June 2 S.		57.03	June 1 S.		25.58
30 S.		48.16	7 R.		56.90	13 S.		25.62
June 1 S.		48.17	8 S.		56.96	19 M.		25.51
3 S.		48.14	13 S.		56.88	21 M.		25.58
5 S.		48.16	14 R.		56.97	23 M.		25.55
13 S.		48.13	17 S.		56.97	24 S.		25.62
19 M.		48.12	18 M.		56.89	27 M.		25.61
20 S.		48.15	21 S.		57.03	28 S.		25.52
23 M.		48.10	22 R.		56.97	July 3 M.		25.52
27 M.		48.13	27 M.		57.02	Mean A.R. 1865.0		
July 3 M.		48.18	28 M.		57.08	14 ^h 39 ^m 25 ^s .572		
Mean A.R. 1865.0			29 S.		56.88	109 VIRGINIS.		
14 ^h 28 ^m 48 ^s .143			30 S.		56.92	1865 May 25 M. 14 39		25.59
π BOOTIS.			July 4 S.		56.90	26 M.		25.59
1865 May 25 M. 14 34		22.95	5 S.		56.95	June 1 S.		25.58
26 M.		22.99	8 S.		56.92	13 S.		25.62
June 1 S.		23.10	Mean A.R. 1865.0			19 M.		25.51
5 S.		23.15	14 ^h 35 ^m 56 ^s .943			21 M.		25.58
13 S.		23.13	109 VIRGINIS.			23 M.		25.55
19 M.		22.90	1865 May 25 M. 14 39		25.59	24 S.		25.62
20 S.		23.02	26 M.		25.59	27 M.		25.61
21 M.		22.92	June 1 S.		25.58	28 S.		25.52
23 M.		23.09	13 S.		25.62	July 3 M.		25.52
24 S.		23.04	19 M.		25.51	Mean A.R. 1865.0		
27 M.		22.98	21 M.		25.58	14 ^h 39 ^m 25 ^s .572		
28 S.		22.97	23 M.		25.55	109 VIRGINIS.		
29 S.		23.14	24 S.		25.62	1865 May 25 M. 14 39		25.59
July 3 M.		22.94	27 M.		25.61	26 M.		25.59
Mean A.R. 1865.0			28 S.		25.52	June 1 S.		25.58
14 ^h 34 ^m 23 ^s .023			29 R.		+0.03	13 S.		25.62
μ VIRGINIS.			June 4 S.		+0.12	19 M.		25.51
1862 May 14 H. 14 35		56.92	8 S.		+0.09	21 M.		25.58
17 S.		56.76	13 S.		+0.05	23 M.		25.55
23 S.		56.97	18 M.		0.00	24 S.		25.62
28 H.		56.92	21 S.		+0.11	27 M.		25.61
June 11 H.		56.84	22 R.		-0.07	28 S.		25.52
16 S.		57.06	24 S.		-0.02	July 3 M.		25.52
17 H.		56.98	28 S.		+0.13	Mean A.R. 1865.0		
1864 April 21 S.		56.94	29 S.		+0.10	14 ^h 39 ^m 25 ^s .572		
29 S.		56.96	30 S.		+0.05	109 VIRGINIS.		
May 3 S.		56.88	July 4 S.		+0.10	1865 May 25 M. 14 39		25.59
5 S.		56.91	8 S.		+0.08	26 M.		25.59
18 R.		56.94	9 S.		+0.09	June 1 S.		25.58
19 S.		56.93	1865 May 30 S.		+0.04	13 S.		25.62
1864 May 27 S.		56.94	Mean		+0.069	19 M.		25.51
28 R.		56.98	N.A.		5.406	21 M.		25.58
29 R.		56.94	Mean A.R. 1865.0			23 M.		25.55
31 S.		56.99	14 ^h 39 ^m 5 ^s .475			24 S.		25.62
June 2 S.		57.03	109 VIRGINIS.			27 M.		25.61
7 R.		56.90	1865 May 25 M. 14 39		25.59	28 S.		25.52
8 S.		56.96	26 M.		25.59	July 3 M.		25.52
13 S.		56.88	June 1 S.		25.58	Mean A.R. 1865.0		
14 R.		56.97	13 S.		25.62	14 ^h 39 ^m 25 ^s .572		
17 S.		56.97	19 M.		25.51	109 VIRGINIS.		
18 M.		56.89	21 M.		25.58	1865 May 25 M. 14 39		25.59
21 S.		57.03	23 M.		25.55	26 M.		25.59
22 R.		56.97	24 S.		25.62	June 1 S.		25.58
27 M.		57.02	27 M.		25.61	13 S.		25.62
28 M.		57.08	28 S.		25.52	19 M.		25.51
29 S.		56.88	July 3 M.		25.52	21 M.		25.58
30 S.		56.92	Mean A.R. 1865.0			23 M.		25.55
July 4 S.		56.90	14 ^h 39 ^m 25 ^s .572			24 S.		25.62
5 S.		56.95	109 VIRGINIS.			27 M.		25.61
8 S.		56.92	1865 May 25 M. 14 39		25.59	28 S.		25.52
Mean A.R. 1865.0			26 M.		25.59	July 3 M.		25.52
14 ^h 35 ^m 56 ^s .943			June 1 S.		25.58	Mean A.R. 1865.0		
π BOOTIS.			13 S.		25.62	14 ^h 39 ^m 25 ^s .572		
1865 May 25 M. 14 34		22.95	19 M.		25.51	109 VIRGINIS.		
26 M.		22.99	21 M.		25.58	1865 May 25 M. 14 39		25.59
June 1 S.		23.10	23 M.		25.55	26 M.		25.59
5 S.		23.15	24 S.		25.62	June 1 S.		25.58
13 S.		23.13	27 M.		25.61	13 S.		25.62
19 M.		22.90	28 S.		25.52	19 M.		25.51
20 S.		23.02	July 3 M.		25.52	21 M.		25.58
21 M.		22.92	Mean A.R. 1865.0			23 M.		25.55
23 M.		23.09	14 ^h 39 ^m 25 ^s .572			24 S.		25.62
24 S.		23.04	109 VIRGINIS.			27 M.		25.61
27 M.		22.98	1865 May 25 M. 14 39		25.59	28 S.		25.52
28 S.		22.97	26 M.		25.59	July 3 M.		25.52
29 S.		23.14	June 1 S.		25.58	Mean A.R. 1865.0		
July 3 M.		22.94	13 S.		25.62	14 ^h 39 ^m 25 ^s .572		
Mean A.R. 1865.0			19 M.		25.51	109 VIRGINIS.		
14 ^h 34 ^m 23 ^s .023			21 M.		25.58	1865 May 25 M. 14 39		25.59
μ VIRGINIS.			23 M.		25.55	26 M.		25.59
1862 May 14 H. 14 35		56.92	24 S.		25.62	June 1 S.		25.58
17 S.		56.76	27 M.		25.61	13 S.		25.62
23 S.		56.97	28 S.		25.52	19 M.		25.51
28 H.		56.92	July 3 M.		25.52	21 M.		25.58
June 11 H.		56.84	Mean A.R. 1865.0			23 M.		25.55
16 S.		57.06	14 ^h 39 ^m 25 ^s .572			24 S.		25.62
17 H.		56.98	109 VIRGINIS.			27 M.		25.61
1864 April 21 S.		56.94	1865 May 25 M. 14 39		25.59	28 S.		25.52
29 S.		56.96	26 M.		25.59	July 3 M.		25.52
May 3 S.		56.88	June 1 S.		25.58	Mean A.R. 1865.0		
5 S.		56.91	13 S.		25.62	14 ^h 39 ^m		

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
ξ BOOTIS.			β URSÆ MINORIS. B.J.			40 BOOTIS.		
1865 May 26	M.	14 ^h 45 ^m 9.81	1862 May 14	H.	+0.04	1865 May 26	M.	14 ^h 54 ^m 26.33
June 2	S.	9.80	17	S.	-0.24	June 19	M.	26.47
13	S.	9.91	23	S.	+0.08	21	M.	26.42
19	M.	9.86	June 11	H.	+0.04	24	S.	26.41
20	S.	10.11	17	H.	+0.19	27	M.	26.36
21	M.	9.87	Dec. 10	S.	-0.09	28	S.	26.37
24	S.	9.79	1864 April 21	S.	+0.27	29	S.	26.51
27	M.	9.84	May 3	S.	+0.10	July 3	M.	26.35
28	S.	9.81	10	S.	+0.18	8	M.	26.33
29	S.	9.82	18	S.	+0.11			
July 3	M.	9.80	22	R.	(-0.75)	Mean A.R. 1865.0		
Mean A.R. 1865.0			29	R.	-0.01		14 ^h 54 ^m 26 ^s .394	
		14 ^h 45 ^m 9 ^s .856	June 6	S.	+0.36			
			7	R.	-0.06			
			13	S.	+0.05			
			14	R.	+0.03			
			18	M.	-0.03			
			22	R.	-0.22			
			24	M.	-0.12			
			28	S.	+0.09			
			July 3	R.	-0.06			
			5	S.	-0.02			
			8	S.	+0.34			
			12	S.	+0.19			
			Mean		+0.053			
			B.J.		7.937			
			Mean A.R. 1865.0					
					14 ^h 51 ^m 7 ^s .990			

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
ψ BOOTIS. N.A.			c BOOTIS.					
1862 May 14	H.	^{s.} -0.03	1862 May 14	H. 15 1	^{h.} ^{m.} ^{s.} 22.38	1864 June 24	M.	^{s.} +0.24
June 23	S.	+0.06	April 29	S.	22.36	27	R.	+0.15
June 11	H.	0.00	May 3	S.	22.31	28	S.	+0.03
1864 April 17	H.	0.00	10	S.	22.31	29	S.	+0.02
21	S.	-0.04	18	S.	22.58	30	R.	+0.14
29	S.	-0.08	10	S.	22.34	July 3	R.	+0.11
May 3	S.	-0.04	28	R.	22.29	5	S.	+0.07
10	S.	-0.02	29	R.	22.29	8	S.	+0.12
18	S.	-0.04	31	S.	22.32	9	S.	+0.12
22	R.	-0.23	June 6	S.	22.28	12	S.	+0.12
29	R.	-0.07	7	R.	22.38	14	S.	+0.01
June 4	S.	-0.02	8	R.	22.28	15	S.	+0.12
8	R.	-0.12	13	S.	22.24	1865 June 12	S.	+0.07
14	R.	-0.02	14	R.	22.35	Mean		+0.117
17	S.	0.00	18	M.	22.32	N.A.		44.665
18	M.	+0.03	22	R.	22.28	Mean A.R. 1865.0		
22	R.	-0.11	24	M.	22.43	15 ^h 9 ^m 44 ^s .782		
24	M.	-0.05	28	S.	22.26	δ BOOTIS.		
29	S.	-0.02	29	S.	22.38	1865 June 21	M. 15 10	^{h.} ^{m.} ^{s.} 3.63
July 3	R.	-0.02	July 3	R.	22.35	24	S.	3.61
4	S.	-0.05	4	S.	22.38	27	M.	3.66
8	S.	-0.05	5	S.	22.33	28	S.	3.53
9	S.	-0.05	8	S.	22.38	July 3	M.	3.64
12	S.	+0.01	12	S.	22.45	8	M.	3.56
Mean		-0.040	14	S.	22.25	14	M.	3.63
N.A.		39.725	Mean A.R. 1865.0		15 1 ^m 22 ^s .331	Mean A.R. 1865.0		
Mean A.R. 1865.0						15 ^h 10 ^m 3 ^s .609		
14 ^h 58 ^m 39 ^s .685			β LIBRÆ. N.A.			5 SERPENTIS.		
223 CAMELOPARDALI B = GR.			1862 May 14	H.	^{s.} 0.00	1865 June 21	M. 15 12	^{h.} ^{m.} ^{s.} 25.44
2196.			23	S.	+0.22	24	S.	25.43
1864 June 28	S. 14 59	^{h.} ^{m.} ^{s.} 40.11	June 11	H.	+0.09	27	M.	25.46
July 9	S.	39.82	16	S.	+0.12	28	S.	25.42
1865 May 25	M.	39.39	1864 April 21	S.	+0.14	July 3	S.	25.40
26	M.	39.07	29	S.	+0.18	11	S.	25.45
30	S.	39.62	May 3	S.	+0.09	14	M.	25.49
June 3	S.	40.23	10	S.	+0.19	15	M.	25.51
19	M.	39.71	19	S.	+0.16	Mean A.R. 1865.0		
21	M.	39.45	22	R.	+0.15	15 ^h 12 ^m 25 ^s .450		
27	M.	39.81	27	S.	+0.05	η CORONÆ.		
July 3	M.	39.97	29	R.	+0.14	1865 June 24	S. 15 17	^{h.} ^{m.} ^{s.} 37.75
Mean A.R. 1865.0			31	S.	-0.01	27	M.	37.64
14 ^h 59 ^m 39 ^s .718			June 2	S.	+0.30	29	S.	37.82
SUB POLO.			4	S.	+0.17	July 3	M.	37.79
1863 Dec. 21	S. 14 59	^{h.} ^{m.} ^{s.} 40.56	6	S.	+0.08	8	M.	37.72
22	S.	39.43	8	R.	+0.05	11	S.	37.60
Mean A.R. 1865.0			13	S.	+0.06			
14 ^h 59 ^m 39 ^s .995			14	R.	+0.15			
			17	S.	+0.22			
			18	M.	+0.12			
			22	R.	+0.09			

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1865 July 13	S.	^{h.} 15 ^{m.} 17 ^{s.} 37.61	γ URSÆ MINORIS. Sub Polo.			Mean		^{s.} -1.034
14	M.	37.66	1864 Feb. 10	S.	+0.03	<i>T.H.S.</i>		5.61
15	M.	37.68	12	S.	-0.01	Mean A.R. 1865.0		15 ^h 22 ^m 4 ^s .576
17	M.	37.65	Nov. 23	S.	+0.02			
18	M.	37.80	25	M.	-0.05			
Mean A.R. 1865.0		15 ^h 17 ^m 37 ^s .702	Dec. 20	M.	-0.21	37 LIBRÆ.		
			1865 Jan. 27	M.	-0.60			
			Mean		-0.137	1862 June 17	H.	^{h.} 15 ^{m.} 26 ^{s.} 48.21
			<i>C. des T.</i>		58.16	July 18	S.	48.05
μ BOOTIS.			Mean A.R. 1865.0		15 ^h 20 ^m 58 ^s .023	1863 July 20	S.	48.12
1862 May 14	H.	^{h.} 15 ^{m.} 19 ^{s.} 23.50				1864 April 29	S.	48.22
June 16	S.	23.65				May 19	S.	48.25
1864 April 21	S.	23.61				27	S.	48.21
29	S.	23.54				31	S.	48.25
May 10	S.	23.46	57 URSÆ MINORIS B.			June 2	S.	48.26
19	S.	23.57	1862 May 23	S.	-3.13	6	S.	48.13
22	R.	23.37	June 16	S.	-1.50	7	S.	48.28
31	S.	23.43	1863 May 25	S.	-0.71	13	S.	48.13
June 2	S.	23.40	1864 April 21	S.	+0.70	14	R.	48.33
4	S.	23.41	June 4	S.	-1.49	16	S.	48.20
6	S.	23.43	7	S.	-0.54	17	S.	48.17
17	S.	23.41	13	S.	-0.64	21	S.	48.18
22	R.	23.34	14	R.	+1.05	24	M.	48.26
24	M.	23.56	16	S.	-0.34	27	R.	48.21
28	S.	23.56	17	S.	-0.84	28	S.	48.12
30	R.	23.29	21	S.	-1.44	29	S.	48.12
July 6	R.	23.42	27	R.	-0.04	July 3	R.	48.25
12	S.	23.52	28	S.	-0.57	4	S.	48.18
14	S.	23.49	29	S.	-0.87	5	S.	48.12
1865 June 12	S.	23.49	July 3	R.	+0.75	6	R.	48.15
24	S.	23.50	4	S.	+0.32	8	S.	48.14
27	M.	23.49	5	S.	-2.29	9	S.	48.12
28	S.	23.50	8	S.	-1.12	12	S.	48.22
Mean A.R. 1865.0		15 ^h 19 ^m 23 ^s .476	15	S.	-1.07	13	R.	48.06
			Mean		-0.725	14	S.	48.20
			<i>T.H.S.</i>		5.61	Mean A.R. 1865.0		15 ^h 26 ^m 48 ^s .184
γ URSÆ MINORIS. <i>C. des T.</i>			Mean A.R. 1865.0		15 ^h 22 ^m 4 ^s .885			
1864 May 22	R.	(-0.73)				θ CORONÆ.		
28	R.	-0.33	57 URSÆ MIN. B. Sub Polo.			1865 June 21	M.	^{h.} 15 ^{m.} 27 ^{s.} 29.22
29	R.	-0.43	1863 Nov. 23	S.	+0.82	24	S.	29.21
June 22	R.	-0.24	Dec. 15	S.	-2.88	29	S.	29.31
24	M.	-0.33	21	S.	-1.46	July 3	M.	29.20
27	R.	-0.07	29	S.	-2.67	8	M.	29.14
July 3	R.	-0.10	1864 Jan. 9	S.	-0.95	13	S.	29.13
4	S.	-0.03	27	S.	+0.10	14	M.	29.18
6	R.	-0.12	Feb. 5	S.	+0.31	15	M.	29.25
20	S.	-0.04	Nov. 16	M.	-2.27	17	M.	29.21
1865 June 12	S.	-0.03	1865 Jan. 20	M.	-0.31	18	M.	29.24
Mean		-0.172	27	M.	-1.57	Mean A.R. 1865.0		15 ^h 27 ^m 29 ^s .209
<i>C. des T.</i>		58.16	Feb. 14	S.	-0.49			
Mean A.R. 1865.0		15 ^h 20 ^m 57 ^s .988						

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
μ SERPENTIS.			ϵ SERPENTIS. C. des T.			ζ URSÆ MINORIS. N.A.		
1862 May 14	H.	^{h.} 15 ^{m.} 42 ^{s.} 34.58	1862 May 14	H.	+0.01	1863 Feb. 20	S.	-0.27
23	S.	34.74	23	S.	0.00	July 20	S.	+0.55
July 18	S.	34.67	June 16	S.	-0.03	22	S.	-0.48
22	S.	34.70	July 3	H.	+0.04	1864 April 21	S.	+0.04
1863 Feb. 20	S.	34.73	18	S.	-0.05	May 19	S.	-0.29
July 22	S.	34.74	22	S.	-0.05	27	S.	-0.24
1864 May 19	S.	34.68	1863 Feb. 20	S.	+0.03	31	S.	-0.13
22	R.	34.67	1864 May 19	S.	+0.13	June 2	S.	-0.02
June 4	S.	34.69	22	R.	+0.08	8	R.	-0.29
6	S.	34.64	27	S.	0.00	10	S.	+0.26
8	R.	34.67	31	S.	-0.05	18	R.	-0.44
13	R.	34.73	June 2	S.	-0.10	22	R.	-0.26
16	S.	34.60	4	S.	-0.03	30	R.	-0.46
17	S.	34.65	6	S.	-0.04	July 3	R.	-0.08
21	S.	34.74	8	R.	-0.04	4	S.	+0.15
22	R.	34.68	13	R.	-0.01	20	S.	-0.29
24	M.	34.70	14	R.	+0.11	22	S.	+0.07
28	S.	34.64	16	S.	+0.02	26	S.	+0.03
29	S.	34.57	17	S.	+0.03	Mean		-0.119
30	R.	34.73	21	S.	-0.08	N.A.		57.045
July 3	R.	34.70	22	R.	-0.05	Mean A.R. 1865.0		15 ^h 48 ^m 56 ^s .926
8	S.	34.63	28	S.	-0.10			
9	S.	34.65	29	S.	-0.07			
20	S.	34.67	July 3	R.	+0.06			
22	S.	34.75	20	S.	-0.07			
Aug. 1	S.	34.70	22	S.	+0.03			
5	S.	34.50	Mean		-0.009			
Mean A.R. 1865.0		15 ^h 42 ^m 34 ^s .672	C. des T.		5.38			
			Mean A.R. 1865.0		15 ^h 44 ^m 5 ^s .371			
δ CORONÆ.			λ LIBRÆ.			ζ URSÆ MINORIS. Sub Polo.		
1865 June 27	M.	^{h.} 15 ^{m.} 43 ^{s.} 56.10	1865 June 28	S.	^{h.} 15 ^{m.} 45 ^{s.} 30.10	1863 Jan. 19	S.	+0.20
28	S.	56.01	29	S.	30.17	Feb. 14	S.	-0.43
29	S.	56.13	July 3	M.	30.30	16	S.	-0.22
July 3	M.	56.16	5	S.	30.22	Nov. 23	S.	+0.07
5	S.	56.06	11	S.	30.30	Dec. 15	S.	+0.04
8	M.	56.04	13	S.	30.16	21	S.	-0.23
11	S.	56.03	14	M.	30.27	26	S.	-0.07
13	S.	55.99	15	M.	30.25	29	S.	-0.20
14	M.	56.15	17	M.	30.31	30	S.	-0.01
15	M.	56.06	18	M.	30.21	1864 Jan. 11	S.	-0.32
17	M.	55.93	22	M.	30.19	12	S.	-0.21
18	M.	56.05	26	M.	30.25	21	S.	+0.16
22	M.	56.02				27	S.	+0.05
26	M.	56.01				Nov. 25	M.	-0.12
27	M.	55.94				1865 Jan. 20	M.	-0.23
Mean A.R. 1865.0		15 ^h 43 ^m 56 ^s .045	Mean A.R. 1865.0		15 ^h 45 ^m 30 ^s .228	25	M.	-0.13
						27	M.	-0.31
						Feb. 14	S.	-0.11
						Mean		-0.115
						N.A.		57.045
						Mean A.R. 1865.0		15 ^h 48 ^m 56 ^s .930

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
γ SERPENTIS.			1865 July 5 S. $-.09$			1864 June 16 S. $+0.13$		
1862 May 23 S. $15^h 50^m 13.22$			8 M. $-.04$			17 S. -0.04		
June 16 S. 13.03			11 S. $-.08$			18 R. -0.08		
1864 May 22 R. 13.28			13 S. $-.03$			21 S. -0.06		
June 4 S. 13.26			14 M. $-.01$			22 R. -0.21		
8 R. 13.14			15 M. $+0.01$			28 S. -0.02		
13 R. 13.09			17 M. $-.12$			29 S. -0.03		
14 S. 13.07			18 M. $-.03$			30 R. -0.10		
16 S. 13.20			22 M. $-.05$			July 4 S. -0.15		
17 S. 13.14			26 M. $-.06$			13 S. -0.10		
18 R. 13.19			27 M. $-.15$			14 S. -0.07		
21 S. 13.14			31 M. $-.00$			22 S. -0.18		
22 R. 13.10			Mean -0.042			Aug. 5 S. $+0.14$		
28 S. 13.11			A.E. 60.018			Mean $+0.092$		
29 S. 13.09			Mean A.R. 1865.0			N.A. 35.417		
30 R. 13.16			$15^h 51^m 59^s.976$			Mean A.R. 1865.0		
July 3 R. 13.20						$15^h 57^m 35^s.515$		
8 S. 13.10								
9 S. 13.17			δ SCORPII.			62 URSÆ MINORIS B.		
13 S. 13.21								
14 S. 13.12			1862 June 16 S. $15^h 52^m 21.36$			1862 May 23 S. $+0.68$		
22 S. 13.26			1864 May 19 S. 21.36			1863 May 25 S. -0.38		
26 S. 13.16			27 S. 21.37			1864 April 21 S. -0.52		
Aug. 1 S. 13.11			31 S. 21.41			May 19 S. -0.41		
Mean A.R. 1865.0			June 8 R. 21.38			27 S. -1.21		
$15^h 50^m 13^s.154$			10 S. 21.32			31 S. -0.85		
			13 S. 21.31			June 2 S. -0.50		
π SCORPII.			14 S. 21.42			4 S. -0.98		
			16 S. 21.47			7 S. -0.49		
1865 June 27 M. $15^h 50^m 41.46$			17 S. 21.39			10 S. -0.40		
28 S. 41.39			28 S. 21.44			July 8 S. -0.34		
29 S. 41.48			July 4 S. 21.36			12 S. -0.52		
July 3 M. 41.49			5 S. 21.35			1865 June 29 S. -0.37		
5 S. 41.41			8 S. 21.26			July 13 S. $+1.26$		
8 M. 41.49			9 S. 21.32			Mean $+0.636$		
11 S. 41.52			12 S. 21.39			T.H.S. 40.04		
13 S. 41.39			13 S. 21.32			Mean A.R. 1865.0		
14 M. 41.49			14 S. 21.36			$15^h 57^m 40^s.676$		
15 M. 41.51			16 R. 21.39					
17 M. 41.56			20 S. 21.30			62 URSÆ MIN. B. Sub Polo.		
18 M. 41.60			22 S. 21.39					
22 M. 41.46			26 S. 21.32			1862 Dec. 11 S. $+0.93$		
26 M. 41.53			Mean A.R. 1865.0			1863 Jan. 5 S. -0.11		
27 M. 41.52			$15^h 52^m 21^s.363$			19 S. -0.73		
Mean A.R. 1865.0						Feb. 16 S. -0.86		
$15^h 50^m 41^s.487$			β SCORPII. N.A.			Nov. 23 S. -0.42		
						Dec. 15 S. -0.57		
ϵ CORONÆ. A.E.			1862 June 16 S. $+0.11$			21 S. -0.57		
			July 18 S. $+0.12$			26 S. -0.38		
1865 June 28 S. -0.10			1864 May 22 R. $+0.36$			29 S. -0.30		
29 S. $+0.06$			27 S. $+0.14$			30 S. -0.46		
July 3 M. $+0.06$			June 8 R. $+0.02$					
			14 S. $+0.06$					

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1864 Jan. 11 S.		+1.75 ^{s.}	87 DRACONIS B. = Gr. 2320.			σ CORONÆ.		
21 S.		+1.26	1865 June 27 M.		+0.15 ^{s.}	1865 June 27 M. 16 9		37.45 ^{s.}
27 S.		+0.97	July 3 M.		+0.36	July 3 M.		37.44
1865 Jan. 18 M.		+0.96	5 S.		+0.21	8 M.		37.45
25 M.		-0.15	8 M.		+0.11	11 S.		37.41
30 M.		+0.17	11 S.		+0.20	13 S.		37.41
Mean		+0.643	13 S.		+0.18	14 M.		37.50
T.H.S.		40.04	14 M.		+0.40	15 M.		37.40
Mean A.R. 1865.0			15 M.		+0.34	18 M.		37.43
15 ^h 57 ^m 40 ^s .683			17 M.		+0.01	22 M.		37.24
θ DRACONIS.			18 M.		+0.02	26 M.		37.38
1862 July 18 S.	15 59	22.00 ^{s.}	22 M.		+0.14	29 S.		37.43
1864 June 6 S.		21.97	29 S.		+0.31	Mean A.R. 1865.0		16 ^h 9 ^m 37 ^s .413
13 R.		21.79	Mean		+0.202			
14 S.		21.76	A.E.		57.81			
16 S.		21.96	Mean A.R. 1865.0					
17 S.		21.80	16 ^h 5 ^m 58 ^s .012					
18 R.		21.79	δ OPHIUCHI. N.A.			ε OPHIUCHI.		
28 S.		21.95	1862 May 23 S.		+0.27 ^{s.}	1862 May 23 S. 16 11		10.96 ^{s.}
30 S.		21.89	July 18 S.		+0.09	July 18 S.		10.78
July 4 S.		22.02	22 S.		+0.11	22 S.		10.84
9 S.		21.85	Sept. 16 S.		+0.02	Aug. 1 S.		10.72
14 S.		21.72	1863 Feb. 20 S.		+0.19	Sept. 16 S.		10.70
22 S.		22.01	July 11 S.		+0.07	1863 Feb. 20 S.		10.90
Mean A.R. 1865.0			1864 May 22 R.		+(0.32)	July 11 S.		10.81
15 ^h 59 ^m 21 ^s .885			June 7 S.		+0.18	22 S.		10.80
θ DRACONIS. Sub Polo.			8 R.		+0.12	1864 May 22 R.		10.96
1863 Jan. 19 S.	15 59	21.77 ^{s.}	14 S.		+0.09	27 S.		10.86
1864 Feb. 5 S.		21.73	16 S.		-0.03	31 S.		10.71
1865 Feb. 1 S.		21.95	17 S.		+0.20	June 7 S.		10.81
14 S.		22.00	21 S.		+0.18	8 R.		10.91
Mean A.R. 1865.0			22 R.		+0.11	13 R.		10.91
15 ^h 59 ^m 21 ^s .862			24 M.		+0.15	14 S.		10.84
ν SCORPII.			July 3 R.		+0.09	16 S.		10.89
1863 July 3 M.	16 4	9.29 ^{s.}	4 S.		+0.04	17 S.		10.89
5 S.		9.06	8 S.		+0.09	21 S.		10.98
11 S.		9.19	9 S.		+0.07	22 R.		10.87
13 S.		9.24	12 R.		+0.09	27 M.		10.78
14 M.		9.25	13 S.		+0.14	30 R.		10.87
15 M.		9.31	14 S.		+0.11	July 3 R.		10.89
17 M.		9.31	22 S.		+0.21	4 S.		10.88
18 M.		9.29	26 S.		+0.08	8 S.		10.91
22 M.		9.43	Aug. 5 S.		-0.02	9 S.		10.81
27 M.		9.21	Mean		+0.110	12 R.		10.82
29 S.		9.05	N.A.		16.306	13 S.		10.80
Aug. 2 M.		8.99	Mean A.R. 1865.0			14 S.		10.83
Mean A.R. 1865.0			16 ^h 7 ^m 16 ^s .416			16 R.		10.76
16 ^h 4 ^m 9 ^s .218			Mean A.R. 1865.0			20 S.		10.82
			16 ^h 11 ^m 10 ^s .844					

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
σ SCORPII.			1864 June 14 S. ^{h.} 16 ^{m.} 15 ^{s.} 57.90			1864 July 13 S. ^{s.} —0.58		
1865 June 27 M.	16	12 59.20	16 S.		58.01	14 S.		—0.70
July 3 M.		59.41	17 S.		57.90	19 R.		—0.66
5 S.		59.25	21 S.		58.03	26 S.		—0.50
8 M.		59.29	24 M.		57.99	27 S.		—0.51
11 S.		59.31	30 R.		57.98	Aug. 5 S.		—0.72
13 S.		59.24	July 3 R.		58.00	8 S.		—0.66
14 M.		59.30	4 S.		57.96	Mean		—0.670
15 M.		59.32	8 S.		58.04	N.A.		10.733
17 M.		59.37	12 R.		57.97	Mean A.R. 1865.0		
18 M.		59.37	15 S.		57.96	16 ^h 22 ^m 10 ^s .063		
22 M.		59.35	16 R.		58.05			
26 M.		59.37	Mean A.R. 1865.0					
29 S.		59.28	16 ^h 15 ^m 57 ^s .980					
31 M.		59.29						
Aug. 1 S.		59.20	ξ CORONÆ.			η DRACONIS. SUB POLO.		
2 M.		59.37	1865 June 27 M.	16	16 50.25	1863 Jan. 19 S.		—0.29
Mean A.R. 1865.0			July 3 M.		50.34	Dec. 15 S.		—0.49
16 ^h 12 ^m 59 ^s .308			5 S.		50.28	29 S.		—0.78
19 URSÆ MINORIS.			11 S.		50.30	1864 Jan. 11 S.		—0.87
1865 June 27 M.		+0.24	13 S.		50.35	Feb. 18 S.		—0.73
July 3 M.		+0.37	14 M.		50.36	1865 Jan. 12 S.		—0.51
5 S.		+0.39	15 M.		50.31	20 M.		—0.66
8 M.		—0.02	17 M.		50.29	24 M.		—0.60
11 S.		+0.22	18 M.		50.31	25 M.		—0.51
13 S.		+0.43	22 M.		50.34	26 S.		—0.56
14 M.		+0.29	26 M.		50.31	27 M.		—0.56
15 M.		+0.12	28 M.		50.36	30 M.		—0.68
17 M.		—0.09	29 S.		50.40	Feb. 1 S.		—0.24
18 M.		+0.16	31 M.		50.35	9 M.		—0.64
22 M.		+0.03	Aug. 1 S.		50.20	11 S.		—0.70
Mean		+0.195	2 M.		50.36	25 S.		—0.83
v. Asten		42.64	Mean A.R. 1865.0			Mean		—0.603
Mean A.R. 1865.0			16 ^h 16 ^m 50 ^s .319			N.A.		10.733
16 ^h 44 ^m 42 ^s .835			η DRACONIS. N.A.			Mean A.R. 1865.0		
γ HERCULIS.			1864 May 31 S.		—0.60	16 ^h 22 ^m 10 ^s .130		
1862 July 18 S.	16	15 57.97	June 7 S.		—0.62	λ OPHIUCHI.		
22 S.		58.00	8 R.		—0.80	1865 June 27 M.	16	24 6.41
Aug. 1 S.		57.90	10 S.		—0.92	July 3 M.		6.49
Sept. 16 S.		57.99	13 S.		—0.69	5 S.		6.35
1863 June 27 S.		58.03	14 S.		—0.58	8 M.		6.36
1864 May 22 R.		58.06	16 S.		—0.63	11 S.		6.41
27 S.		57.96	17 S.		—0.58	13 S.		6.43
31 S.		57.92	21 S.		—0.59	14 M.		6.52
June 8 R.		57.95	24 S.		—0.87	15 M.		6.33
13 R.		57.98	30 S.		—0.59	17 M.		6.44
			July 3 R.		—0.75	18 M.		6.46
			8 S.		—0.58	20 S.		6.41
			12 R.		—0.95	22 M.		6.43
						26 M.		6.48
						28 M.		6.39
						29 S.		6.43
						31 M.		6.47

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1865 Feb. 1 S.		^{h.} 16 ^{m.} 33 ^{s.} 19.18	η HERCULIS.			ζ^1 SCORPII.		
2 S.		19.36	1862 July 18 S.		^{h.} 16 ^{m.} 38 ^{s.} 16.21	1862 July 18 S.	^{h.} 16 ^{m.} 44 ^{s.} 28.73	
11 S.		19.31	Aug. 1 S.		16.27	Aug. 6 S.		28.78
25 S.		19.10	Sept. 16 S.		16.02	1864 June 10 M.		28.77
Mean A.R. 1865.0			1863 July 11 S.		16.13	14 S.		28.86
16 ^h 33 ^m 19 ^s .156			22 S.		16.23	21 S.		28.97
ζ HERCULIS. N.A.			1864 May 22 R.		(16.39)	July 3 R.		28.96
1862 July 3 H.		+0.12	June 8 R.		16.11	4 S.		28.58
18 S.		+0.15	14 S.		16.09	12 R.		28.73
Sept. 16 S.		-0.01	16 S.		16.11	15 S.		28.94
1863 July 11 S.		-0.01	17 S.		16.12	16 R.		28.96
1864 May 22 R.		+0.07	21 S.		16.11	1865 June 23 M.		28.77
June 8 R.		-0.01	22 R.		16.09	27 M.		28.84
10 S.		-0.14	July 24 S.		15.90	July 3 M.		28.92
17 S.		-0.06	3 R.		16.13	5 S.		28.80
21 S.		+0.08	4 R.		16.20	11 S.		28.97
22 R.		-0.01	10 R.		16.15	14 M.		28.92
July 4 S.		+0.08	12 R.		16.11	15 M.		29.00
8 S.		+0.05	13 S.		16.16	17 M.		28.94
14 S.		+0.05	14 S.		16.14	22 M.		29.03
20 S.		+0.04	18 R.		16.15	26 M.		28.94
23 R.		+0.06	19 R.		16.04	28 M.		(29.24)
26 S.		+0.05	23 R.		16.21	Mean A.R. 1865.0		
30 S.		+0.05	Aug. 8 S.		(15.89)	16 ^h 44 ^m 28 ^s .870		
Aug. 8 S.		+0.02	Mean A.R. 1865.0			ζ^2 SCORPII.		
Sept. 6 S.		-0.01	16 ^h 38 ^m 16 ^s .128			1862 July 18 S.	^{h.} 16 ^{m.} 45 ^{s.} 5.39	
7 S.		-0.01	ϵ SCORPII. C. des T.			Aug. 6 S.		5.43
Mean		+0.028	1862 July 18 S.		+0.33	1864 May 22 R.		5.82
N.A.		11.849	1864 May 22 R.		+0.48	June 10 M.		5.55
Mean A.R. 1865.0			31 S.		+0.32	14 S.		5.68
16 ^h 36 ^m 11 ^s .877			June 10 M.		+0.15	17 S.		5.57
Pl. XVI. 195 = Gr. 2373.			14 S.		+0.33	21 S.		5.73
1865 June 23 M.		^{h.} 16 ^{m.} 36 ^{s.} 29.75	17 S.		+0.08	July 3 R.		5.42
27 M.		29.76	21 S.		+0.17	4 S.		5.48
July 3 M.		30.14	24 S.		+0.12	12 R.		5.43
5 S.		30.01	July 4 S.		+0.20	13 S.		5.65
8 S.		29.66	12 R.		+0.12	15 S.		5.57
11 M.		29.81	13 S.		+0.24	16 R.		5.56
13 S.		29.90	14 S.		+0.09	30 S.		5.75
14 M.		29.82	15 S.		+0.44	1865 June 23 M.		5.56
15 M.		29.82	27 S.		+0.38	27 M.		5.49
17 M.		29.66	30 S.		+0.25	July 3 M.		5.59
20 S.		29.96	Aug. 1 S.		+0.13	5 S.		5.52
22 M.		29.56	1865 June 23 M.		+0.27	11 S.		5.60
Mean A.R. 1865.0			27 M.		-0.04	14 M.		5.68
16 ^h 36 ^m 29 ^s .820			July 3 M.		+0.21	Mean A.R. 1865.0		
Pl. XVI. 195 = Gr. 2373.			5 S.		+0.15	16 ^h 45 ^m 5 ^s .574		
1865 June 23 M.		^{h.} 16 ^{m.} 36 ^{s.} 29.75	8 M.		+0.23	ζ^2 SCORPII.		
27 M.		29.76	14 M.		+0.27	1862 July 18 S.	^{h.} 16 ^{m.} 45 ^{s.} 5.39	
July 3 M.		30.14	Mean		+0.224	Aug. 6 S.		5.43
5 S.		30.01	C. des T.		25.36	1864 May 22 R.		5.82
8 S.		29.66	Mean A.R. 1865.0			June 10 M.		5.55
11 M.		29.81	16 ^h 41 ^m 25 ^s .584			14 S.		5.68
13 S.		29.90	ϵ SCORPII. C. des T.			17 S.		5.57
14 M.		29.82	1862 July 18 S.		+0.33	21 S.		5.73
15 M.		29.82	1864 May 22 R.		+0.48	July 3 R.		5.42
17 M.		29.66	31 S.		+0.32	4 S.		5.48
20 S.		29.96	June 10 M.		+0.15	12 R.		5.43
22 M.		29.56	14 S.		+0.33	13 S.		5.65
Mean A.R. 1865.0			17 S.		+0.08	15 S.		5.57
16 ^h 36 ^m 29 ^s .820			21 S.		+0.17	16 R.		5.56

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
53 HERCULIS.			1865 July 14 M. 16 ^h 53 ^m 56.72			1865 July 22 M. 16 ^h 55 ^m 17.36		
			15 M. 56.70			29 S. 17.40		
1865 June 23 M. 16 ^h 47 ^m 51.06			17 M. 56.73			Mean A.R. 1865.0		
27 M. 51.01			20 S. 56.67			16 ^h 55 ^m 17 ^s .460		
July 3 M. 51.16			22 M. 56.70			ε URSAE MINORIS.		
5 S. 51.00			26 M. 56.63			1862 July 18 S. +0.20		
8 M. 50.97			29 S. 56.62			Aug. 21 S. -0.31		
11 S. 51.00			31 M. 56.57			Sept. 10 S. +0.14		
14 M. 51.06			Aug. 1 S. 56.55			Oct. 18 S. +0.19		
15 M. 51.08			2 M. 56.63			1863 Aug. 10 S. -0.20		
17 M. 50.87			12 M. 56.55			24 S. -0.11		
22 M. 51.01			Mean A.R. 1865.0			1864 June 10 M. -0.30		
26 M. 51.02			16 ^h 53 ^m 56 ^s .640			14 S. +0.25		
28 M. 50.97			ε HERCULIS. C. des T.			16 S. +0.17		
29 M. 51.01			1862 July 18 S. +0.01			17 S. -0.32		
31 M. 50.97			Aug. 1 S. -0.09			July 3 R. +0.42		
Aug. 1 S. 50.89			6 S. -0.05			4 S. +0.47		
2 M. 50.94			11 S. -0.04			12 R. -0.07		
Mean A.R. 1865.0			21 S. -0.06			14 S. +0.14		
16 ^h 47 ^m 51 ^s .001			Sept. 8 S. +0.12			19 R. -0.04		
α OPHIUCHI. N.A.			9 S. +0.07			1865 June 27 M. -0.40		
1862 July 18 S. +0.01			16 S. +0.06			July 3 M. +0.17		
Aug. 6 S. -0.04			18 S. -0.02			5 S. +0.42		
Sept. 16 S. -0.13			25 S. -0.01			8 M. -0.16		
18 S. +0.04			1863 July 11 S. -0.03			14 M. +0.24		
25 S. +0.00			1864 June 14 S. -0.06			18 M. -0.15		
1863 July 11 S. 0.00			16 S. -0.09			20 S. +0.42		
22 S. +0.10			17 S. -0.13			27 M. -0.22		
Aug. 24 S. +0.04			22 R. -0.07			Aug. 1 S. -0.20		
1864 June 14 S. +0.06			24 S. -0.21			2 M. +0.10		
17 S. -0.02			July 10 R. -0.04			8 M. -0.19		
21 S. +0.07			12 R. -0.05			12 M. -0.21		
22 R. +0.06			13 S. +0.04			14 M. -0.03		
24 S. -0.09			16 R. -0.07			Mean		
July 3 R. +0.08			18 R. +0.03			+0.015		
4 S. -0.03			19 R. -0.11			T.H.S. 54.87		
12 R. +0.04			22 S. -0.03			Mean A. R. 1865.0		
14 S. +0.05			23 R. -0.19			16 ^h 59 ^m 54 ^s .885		
16 R. -0.06			Aug. 8 S. +0.02			SUB POLO.		
18 R. +0.01			Mean			1862 Oct. 8 S. -0.41		
22 S. -0.01			C. des T. 7.55			1863 Jan. 19 S. +0.19		
23 R. +0.04			Mean A.R. 1865.0			31 S. -0.18		
Mean			16 ^h 55 ^m 7 ^s .510			Mar. 2 S. -0.71		
N.A. 16.769			h DRACONIS.			9 S. +0.32		
Mean A.R. 1865.0			1865 June 23 M. 16 ^h 55 ^m 17.69			Dec. 29 S. -0.12		
16 ^h 51 ^m 16 ^s .780			27 M. 17.39			1865 Feb. 21 S. +0.29		
30 OPHIUCHI.			July 8 M. 17.40			Mar. 6 S. +0.16		
1865 June 27 M. 16 ^h 53 ^m 56.58			11 S. 17.50			Mean		
July 3 M. 56.75			14 M. 17.66			-0.058		
8 M. 56.57			15 M. 17.49			T.H.S. 54.87		
11 S. 56.63			17 M. 17.36			Mean A.R. 1865.0		
			20 S. 17.35			16 ^h 59 ^m 54 ^s .812		

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
μ DRACONIS.								
1865 July	18 M.	17 ^h 2 ^m 32.38 ^s	1865 July	26 M.	17 ^h 5 ^m 55.98 ^s	1864 Aug.	1 S.	17 ^h 12 ^m 54.94 ^s
	20 S.	32.38		27 M.	55.87	1865 June	23 M.	54.90
	22 S.	32.35		31 M.	56.19	July	5 S.	54.95
	26 M.	32.29	Mean A.R. 1865.0				14 M.	55.04
	27 M.	32.38	17 ^h 5 ^m 56 ^s .155				15 M.	55.03
	29 S.	32.56	π HERCULIS.				17 M.	55.02
	31 M.	32.38	1862 Aug.	6 S.	17 ^h 10 ^m 20.70 ^s		18 M.	55.03
Aug.	1 S.	32.33		11 S.	20.77		21 M.	55.05
	2 M.	32.42		21 S.	20.69	Mean A.R. 1865.0		
Mean A.R. 1865.0			Sept.	9 S.	20.76	17 ^h 12 ^m 54 ^s .957		
17 ^h 2 ^m 32 ^s .386				10 S.	20.83	θ OPHIUCHI. N.A.		
η OPHIUCHI.				11 S.	20.81	1862 Aug.	6 S.	—0.09
1862 Aug.	21 S.	17 ^h 2 ^m 38.32 ^s		15 S.	20.72	Sept.	11 S.	+0.14
Sept.	10 S.	38.30		16 S.	20.73		15 S.	+0.14
	11 S.	38.33		17 S.	20.84		16 S.	—0.04
	16 S.	38.27		18 S.	20.80		17 S.	+0.20
	17 S.	38.33		23 S.	20.78		18 S.	+0.15
	18 S.	38.29		25 S.	20.83		23 S.	+0.11
	25 S.	38.28	Oct.	6 S.	20.63	1863 Aug.	10 S.	+0.21
1863 July	11 S.	38.32	1864 June	10 S.	20.62	1864 June	10 S.	+0.15
Aug.	3 S.	38.27		14 S.	20.79		16 S.	+0.10
	10 S.	38.41		16 S.	20.76		21 S.	+0.25
1864 June	10 S.	38.26		21 S.	20.70	July	3 R.	+0.22
	14 S.	38.35	July	22 R.	20.58		4 S.	+0.13
	16 S.	38.32		3 R.	20.83		12 R.	+0.11
	17 S.	38.28		4 S.	20.84		13 S.	+0.08
July	3 R.	38.32		12 R.	20.79		14 S.	+0.08
	4 S.	38.13		16 R.	20.68		15 S.	+0.15
	10 R.	38.29		19 R.	20.70		16 R.	+0.16
	12 R.	38.25		30 S.	20.80		18 R.	+0.19
	13 S.	38.35	Mean A.R. 1865.0				20 S.	+0.14
	14 S.	38.38	17 ^h 10 ^m 20 ^s .749				22 S.	+0.12
	15 S.	38.19	ξ OPHIUCHI.				28 S.	+0.17
	16 R.	38.21	1862 July	22 S.	17 ^h 12 ^m 54.96 ^s	Mean		+0.130
	18 R.	38.38	Aug.	6 S.	54.76	N.A.		43.176
	19 R.	38.20		11 S.	54.85	Mean A.R. 1865.0		
	30 S.	38.34		21 S.	54.88	17 ^h 13 ^m 43 ^s .306		
Sept.	16 S.	38.34	1863 Aug.	3 S.	54.88	271 HERCULIS B.=GR. 2435.		
Mean A.R. 1865.0			1864 June	16 S.	54.94	B.A.C. 5874.		
17 ^h 2 ^m 38 ^s .297				21 S.	55.02			
77 URSÆ MINORIS B.=GR. 2427.			July	4 S.	55.00			
1865 July	18 M.	17 ^h 5 ^m 56.01 ^s		13 S.	54.97	1865 July	17 M.	17 ^h 17 ^m 17.89 ^s
	20 S.	56.49		14 S.	54.88		18 M.	17.92
	22 S.	56.39		15 S.	55.00		20 S.	17.94
				16 R.	54.88		24 M.	18.06
				18 R.	55.00		26 M.	17.87
				20 S.	54.97		27 M.	17.85
				28 S.	55.07		29 S.	17.88

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1865 July 31 M.		^{h.} 17 ^{m.} 17 ^{s.} 17.70	1862 Sept. 25 S.		+0.02	1865 Aug. 4 M.	^{h.} 17 ^{m.} 35 ^{s.} 39.29	
Aug. 2 M.		17.96	29 S.		+0.08	12 M.	39.13	
4 M.		17.89	Oct. 6 S.		+0.02	28 M.	39.39	
Mean A.R. 1865.0			7 S.		+0.08	Mean A.R. 1865.0		
		17 ^h 17 ^m 17 ^s .896	16 S.		0.00		17 ^h 35 ^m 39 ^s .256	
			18 S.		+0.06			
ρ HERCULIS.			1863 June 17 S.		0.00	β OPHIUCHI. C. des T.		
1865 July 17 M.	^{h.} 17 ^{m.} 19 ^{s.} 1.47		July 31 S.		+0.06	1862 July 26 S.	+0.10	
18 M.	1.50		Aug. 22 S.		+0.11	Sept. 10 S.	-0.10	
20 S.	1.54		24 S.		-0.04	18 S.	-0.02	
22 S.	1.48		1864 June 14 S.		+0.09	23 S.	-0.03	
24 M.	1.51		21 S.		+0.01	25 S.	+0.03	
26 M.	1.48		22 R.		-0.01	29 S.	+0.01	
27 M.	1.49		July 3 R.		+0.15	Oct. 18 S.	-0.07	
29 S.	1.57		12 R.		-0.02	1863 Aug. 10 S.	-0.16	
31 M.	1.56		18 R.		+0.18	15 S.	+0.05	
Aug. 1 S.	1.54		23 R.		+0.20	22 S.	-0.10	
2 M.	1.62		Sept. 16 S.		+0.11	24 S.	-0.10	
28 M.	1.60		17 S.		+0.07	Sept. 2 S.	-0.02	
Mean A.R. 1865.0			Oct. 7 S.		+0.21	1864 June 14 S.	0.00	
		17 ^h 19 ^m 1 ^s .530	1865 June 23 M.		+0.12	16 S.	+0.04	
			Mean		+0.069	21 S.	+0.10	
			N.A.		22.945	22 R.	+0.01	
			Mean A.R. 1865.0			July 3 R.	-0.02	
					17 ^h 27 ^m 23 ^s .014	12 R.	-0.12	
						13 S.	-0.04	
λ HERCULIS.			Gr. 2456 = 50 HEIS URSÆ			16 R.	-0.16	
1865 July 17 M.	^{h.} 17 ^{m.} 25 ^{s.} 17.01		MINORIS.			18 R.	+0.03	
20 S.	17.03		1865 July 17 M.	^{h.} 17 ^{m.} 29 ^{s.} 52.81		19 R.	-0.01	
22 S.	17.06		18 M.	52.53		22 S.	+0.07	
24 M.	16.96		20 S.	52.91		28 S.	-0.04	
26 M.	17.12		22 S.	53.07		Sept. 16 S.	-0.05	
27 M.	16.91		24 M.	53.05		Mean	-0.024	
28 M.	17.05		26 M.	52.84		C. des T.	48.30	
29 S.	17.00		27 M.	52.82		Mean A.R. 1865.0		
31 M.	17.08		28 M.	52.58			17 ^h 36 ^m 48 ^s .276	
Aug. 1 S.	17.00		29 S.	52.84				
2 M.	17.10		31 M.	52.73				
28 M.	17.06		Mean A.R. 1865.0			ω DRACONIS. A.E.		
Mean A.R. 1865.0					17 ^h 29 ^m 52 ^s .818	1865 July 17 M.	-0.32	
		17 ^h 25 ^m 17 ^s .032				18 M.	-0.32	
						22 S.	-0.10	
β DRACONIS. N.A.						24 M.	-0.17	
1862 Aug. 6 S.		-0.14	ι HERCULIS.			26 M.	-0.14	
11 S.		+0.12	1865 July 17 M.	^{h.} 17 ^{m.} 35 ^{s.} 39.08		28 M.	-0.15	
21 S.		-0.05	18 M.	39.22		29 S.	-0.25	
Sept. 2 S.		+0.25	22 S.	39.30		31 M.	-0.23	
11 S.		+0.10	26 M.	39.28		Aug. 28 M.	-0.02	
15 S.		+0.10	27 M.	39.23		Sept. 6 S.	0.00	
16 S.		-0.08	28 M.	39.35		Mean	-0.170	
18 S.		+0.12	29 S.	39.23		A.E.	44.68	
23 S.		+0.14	31 M.	39.32		Mean A.R. 1865.0		
							17 ^h 37 ^m 44 ^s .510	

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
γ OPHIUCHI.								
1865 July	17 M.	17 41 7.58	1863 Sept.	2 S.	17 44 20.42	1863 Aug.	14 S.	17 51 12.02
	22 S.	7.60	1864 June	14 S.	20.82		15 S.	11.73
	26 M.	7.58		21 S.	20.95		18 S.	11.57
	28 M.	7.58	July	3 R.	20.91		22 S.	11.66
	29 S.	7.51		12 R.	20.50	1864 June	14 S.	11.72
	31 M.	7.52		13 S.	20.68		21 S.	11.58
Aug.	4 M.	7.39		16 R.	20.40		22 R.	11.50
	12 M.	7.38		18 R.	20.78	July	3 R.	11.87
	14 M.	7.40		19 R.	20.59		16 R.	11.62
	15 M.	7.49		23 R.	21.12		19 R.	11.58
	19 S.	7.46	Aug.	8 S.	20.75	Sept.	17 S.	11.66
	25 M.	7.51	Sept.	16 S.	20.64	Mean A.R. 1865.0		
Mean A.R. 1865.0				17 S.	20.57		17 ^h 51 ^m 11 ^s .664	
		17 ^h 41 ^m 7 ^s .500	Mean A.R. 1865.0			SUB POLO.		
					17 ^h 44 ^m 20 ^s .702			
μ HERCULIS. N.A.			SUB POLO.					
1862 July	26 S.	+0.14	1863 Feb.	2	17 44 20.75	1862 Oct.	5 S.	17 51 11.79
Sept.	25 S.	+0.03		20	21.19	1863 Feb.	20 S.	11.83
	29 S.	+0.08		23	20.76		23 S.	11.76
Oct.	18 S.	+0.03	1864 Jan.	11	20.56	1864 Jan.	11 S.	11.71
1863 Aug.	3 S.	+0.10	1865 Feb.	2	20.62		25 S.	11.88
	10 S.	+0.12		9	20.71	Feb.	18 S.	11.67
	12 S.	+0.06		11	21.08	Mean A.R. 1865.0		
	24 S.	+0.02		13	21.33		17 ^h 51 ^m 11 ^s .773	
1864 June	14 S.	+0.13		22	20.97	θ HERCULIS.		
	21 S.	+0.06		24	20.83	1865 July	17 M.	17 51 37.27
	22 R.	+0.11	Mean A.R. 1865.0				22 S.	37.47
July	13 S.	+0.01			17 ^h 44 ^m 20 ^s .880		24 M.	37.47
	16 R.	+0.06	f HERCULIS.				28 M.	37.47
	18 R.	+0.12	1865 July	22 S.	17 48 54.45		29 S.	37.51
	23 R.	+0.10	Aug.	4 M.	54.50	Aug.	31 M.	37.46
	28 S.	+0.12		12 M.	54.55		2 M.	37.48
Aug.	8 S.	+0.03		14 M.	54.44		4 M.	37.45
Sept.	16 S.	+0.06		15 M.	54.33		8 M.	37.48
	17 S.	0.00		19 S.	54.38		12 M.	37.45
	22 S.	+0.09	Mean A.R. 1865.0				14 M.	37.45
Oct.	7 S.	+0.05			17 ^h 48 ^m 54 ^s .442		15 M.	37.41
Mean		+0.070	ξ DRACONIS.			Mean A.R. 1865.0		
N.A.		10.507	1862 July	26 S.	17 51 11.63		17 ^h 51 ^m 37 ^s .447	
Mean A.R. 1865.0			Sept.	23 S.	11.69	γ DRACONIS. B.J.		
		17 ^h 41 ^m 10 ^s .577		29 S.	11.47	1862 July	26 S.	-0.03
ψ DRACONIS.			1863 Aug.	3 S.	11.75	Sept.	11 S.	+0.01
1863 Aug.	3 S.	17 44 20.91		10 S.	11.69		23 S.	+0.03
	10 S.	20.62		12 S.	11.54		29 S.	-0.09
	12 S.	20.64				Oct.	7 S.	-0.04
	18 S.	20.54					16 S.	-0.26
	22 S.	20.66					18 S.	-0.10
	24 S.	20.59						

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1863 Aug. 3 S.		^{s.} 0.00	Mean		^{s.} +0.080	GR. 2517 = B.A.C. 6162.		
12 S.		+0.01	A.E.		8.20	1865 July 17 M.	^{h.} 18 ^{m.} 3	^{s.} 24.75
15 S.		0.00	Mean A.R. 1865.0		17 ^h 57 ^m 8 ^s .280	22 S.		24.84
18 S.		-0.21				24 M.		24.89
Sept. 4 S.		(-0.61)				28 M.		24.77
28 S.		-0.09				31 M.		24.93
1864 June 14 S.		-0.10	70 OPHIUCHI. Preceding.			Aug. 2 M.		24.87
22 R.		-0.10				4 M.		24.82
July 3 R.		+0.08	1862 July 26 S.	^{h.} 17 ^{m.} 58	^{s.} 37.87	8 M.		24.81
12 R.		-0.24	Aug. 21 S.		37.78	12 M.		24.70
13 S.		-0.06	Sept. 8 S.		37.85	14 M.		24.77
16 R.		-0.12	11 S.		37.91	Mean A.R. 1865.0		18 ^h 3 ^m 24 ^s .815
18 R.		-0.13	23 S.		37.81			
19 R.		-0.17	1863 July 24 S.		37.80	μ SAGITTARI. N.A.		
23 R.		-0.03	Aug. 3 S.		37.90	1862 July 26 S.		^{s.} +0.15
30 S.		-0.12	12 S.		37.91	Aug. 6 S.		-0.11
Aug. 8 S.		-0.02	15 S.		38.02	21 S.		-0.10
Sept. 16 S.		-0.05	18 S.		37.88	Sept. 23 S.		-0.08
17 S.		-0.21	22 S.		37.85	25 S.		-0.23
22 S.		-0.06	24 S.		37.84	1863 July 24 S.		-0.09
Oct. 7 S.		-0.11	1864 June 14 S.		37.96	Aug. 3 S.		-0.10
Mean		-0.082	21 S.		38.09	12 S.		-0.12
B.J.		28.434	July 3 R.		38.05	14 S.		-0.25
Mean A.R. 1865.0		17 ^h 53 ^m 28 ^s .352	12 R.		37.88	18 S.		-0.19
			13 S.		37.91	1864 June 14 S.		-0.28
35 DRACONIS.			14 S.		37.86	21 S.		-0.25
1865 July 22 S.	^{h.} 17 ^{m.} 55	^{s.} 29.67	15 S.		37.92	23 S.		-0.23
24 M.		29.58	16 R.		37.90	July 3 R.		-0.21
28 M.		29.61	18 R.		37.86	12 R.		-0.12
31 M.		29.60	19 R.		37.82	13 S.		-0.18
Aug. 2 M.		29.71	23 R.		37.76	14 S.		-0.15
29 S.		29.85	Aug. 8 S.		37.95	15 S.		-0.11
31 S.		29.95	Sept. 10 S.		37.96	16 R.		-0.23
Sept. 5 S.		30.02	22 S.		37.94	18 R.		-0.24
6 S.		29.73	Mean A.R. 1865.0		17 ^h 58 ^m 37 ^s .895	20 S.		-0.17
Mean A.R. 1865.0		17 ^h 55 ^m 29 ^s .747				28 S.		-0.22
						30 S.		-0.14
γ SAGITTARI. A.E.			b HERCULIS.			Sept. 10 S.		-0.18
1865 July 22 S.		^{s.} +0.29	1865 July 17 M.	^{h.} 18 ^{m.} 1	^{s.} 54.04	Mean		+0.172
24 M.		+0.24	22 S.		54.03	N.A.		41.304
28 M.		+0.10	24 M.		54.11	Mean A.R. 1865.0		18 ^h 5 ^m 41 ^s .476
29 S.		+0.01	28 M.		54.17			
31 M.		+0.11	29 S.		54.08	A HERCULIS.		
Aug. 2 M.		+0.09	31 M.		54.11	1865 July 17 M.	^{h.} 18 ^{m.} 6	^{s.} 49.41
4 M.		-0.03	Aug. 2 M.		54.13	22 S.		49.48
8 M.		+0.05	4 M.		54.09	24 M.		49.49
12 M.		-0.11	8 M.		54.08	28 M.		49.39
14 M.		+0.05	12 M.		54.09	31 M.		49.45
Sept. 5 S.		+0.06	Mean A.R. 1865.0		18 ^h 1 ^m 54 ^s .093			
6 S.		+0.10						

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1865 Aug.	2 M.	18 ^h 6 ^m 49.45	1864 July	28 S.	18 ^h 10 ^m 14.76	1865 Aug.	26 S.	18 ^h 13 ^m 7.21
	4 M.	49.43		30 S.	14.43		31 S.	7.17
	8 M.	49.42	Aug.	8 S.	14.18	Sept.	2 S.	7.24
	12 M.	49.43	Mean A.R. 1865.0				4 M.	7.25
	14 M.	49.47			18 ^h 10 ^m 14'.412		5 S.	7.23
Mean A.R. 1865.0		18 ^h 6 ^m 49'.442					6 M.	7.02
			SUB POLO.			Mean A.R. 1865.0		18 ^h 13 ^m 7'.158
η SAGITTARI.			1864 Jan.	11 S.	18 ^h 10 ^m 14.48	η SERPENTIS.		
1865 July	17 M.	18 ^h 8 ^m 29.66		16 S.	14.37	1862 Oct.	6 S.	18 ^h 14 ^m 19.50
	28 M.	29.62		25 S.	14.40	Sept.	4 S.	19.66
	31 M.	29.58	1865 Feb.	11 S.	14.40		29 S.	19.71
Aug.	2 M.	29.67		21 S.	14.56	1864 July	3 R.	19.64
	4 M.	29.58		24 M.	14.51		12 R.	19.46
	8 M.	29.66	Mar.	6 M.	14.87		18 R.	19.66
	24 M.	29.82		18 S.	14.65		19 R.	19.55
	25 M.	29.50	Mean A.R. 1865.0				20 S.	19.55
	29 S.	29.59			18 ^m 10 ^h 14'.530		23 R.	19.51
	31 S.	29.58					26 S.	19.56
Mean A.R. 1865.0		18 ^h 8 ^m 29'.626	δ SAGITTARI.				28 S.	19.58
40 DRACONIS.			1862 July	26 S.	18 ^h 12 ^m 21.15		30 S.	19.56
1864 July	3 R.	18 ^h 10 ^m 8.56	Aug.	6 S.	21.12	Aug.	1 S.	19.62
	12 R.	8.16	Sept.	4 S.	21.12		8 S.	19.57
Mean A.R. 1865.0		18 ^h 10 ^m 8'.360		8 S.	21.09	Sept.	9 S.	19.68
				23 S.	20.98		10 S.	19.61
SUB POLO.			1863 Aug.	3 S.	21.04		16 S.	19.63
1863 Feb.	23 S.	18 ^h 10 ^m 8.05	1864 June	23 S.	21.33		22 S.	19.64
Dec.	29 S.	8.48	July	5 S.	21.14		27 S.	19.56
Mean A.R. 1865.0		18 ^h 10 ^m 8'.265		12 R.	21.36	Oct.	5 S.	19.62
				13 S.	21.15	Mean A.R. 1865.0		18 ^h 14 ^m 19'.594
41 DRACONIS.				18 R.	21.30			
1863 July	24 S.	18 ^h 10 ^m 14.17		19 R.	21.14	δ URSÆ MINORIS. B.J.		
1864 June	14 S.	14.77		26 S.	21.14	1862 Sept.	23 S.	-0.08
	21 S.	14.05		28 S.	21.29		29 S.	+0.08
	23 S.	14.51		30 S.	21.22	Oct.	18 S.	+0.46
July	5 S.	14.37	Sept.	9 S.	21.16	1863 Aug.	19 S.	+0.03
	13 S.	14.47		10 S.	21.19		24 S.	-0.27
	14 S.	14.64		16 S.	21.30	Sept.	5 S.	+1.08
	18 R.	14.30		27 S.	21.16		10 S.	-0.12
	19 R.	14.29	Oct.	5 S.	21.22		28 S.	-0.81
			Mean A.R. 1865.0				30 S.	-0.27
					18 ^h 12 ^m 21'.180	1864 June	14 S.	0.00
			36 DRACONIS.				21 S.	-0.27
			1865 July	17 M.	18 ^h 13 ^m 6.92		20 R.	+0.19
				22 S.	7.13		23 S.	-0.03
				24 M.	7.17		28 S.	+0.34
				28 M.	7.09			
				31 M.	7.31			

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1864 July 3 R.		+1.77 ^{s.}	Mean		+0.355 ^{s.}	3 H. SCUTI.		A.E.
5 S.		+0.66	B.J.		53.34	1865 July 17 M.		+0.20 ^{s.}
12 R.		-0.20	Mean A.R. 1865.0		18 ^h 15 ^m 53 ^s .695	22 S.		+0.23
13 S.		+0.30				26 M.		+0.20
14 S.		+0.27				27 S.		+0.13
15 S.		-0.02				28 M.		+0.22
16 R.		+0.73	24 URSÆ MINORIS.			31 M.		+0.10
18 R.		+0.02				Aug. 2 M.		+0.10
19 R.		+0.30	1865 July 17 M.	18 ^h 20 ^m	44.59 ^{s.}	4 M.		+0.14
20 S.		-0.22	22 S.		45.12	9 M.		+0.12
23 R.		+0.47	24 M.		45.42	12 M.		+0.11
26 S.		+0.20	26 M.		44.36	26 S.		+0.00
1865 July 18 M.		-1.00	27 M.		45.14	29 S.		+0.05
20 S.		-0.43	28 M.		44.78	Sept. 2 S.		+0.11
22 S.		-0.27	Aug. 4 M.		44.75	5 S.		+0.11
24 M.		-1.01	21 S.		45.85	6 M.		-0.01
27 S.		+0.09	29 S.		44.93	16 S.		+0.05
29 S.		-0.71	31 S.		45.65	21 S.		+0.21
31 M.		-0.22	Mean A.R. 1865.0		18 ^h 20 ^m 45 ^s .059	Mean		+0.122
Aug. 2 M.		+0.55				A.E.		51.583
12 M.		-0.20	χ DRACONIS. A.N. 1578.			Mean A.R. 1865.0		18 ^h 27 ^m 51 ^s .705
14 M.		+0.84	1865 Sept. 2 S.		+0.25 ^{s.}	45 DRACONIS.		
23 M.		+0.27	4 M.		-0.05	1865 July 27 S.	18 ^h 30 ^m	14.65 ^{s.}
24 M.		-0.04	5 S.		+0.07	31 M.		14.69
25 M.		+0.25	6 M.		-0.26	Aug. 2 M.		14.70
Sept. 13 M.		+0.77	16 S.		-0.02	4 M.		14.78
16 S.		-0.07	23 S.		+0.04	9 M.		14.86
27 M.		-0.06	25 M.		+0.14	12 M.		14.56
29 M.		-0.05	26 S.		+0.05	26 S.		14.83
30 S.		+1.15	27 M.		+0.05	29 S.		14.79
Mean		+0.102	29 M.		+0.11	31 S.		14.81
B.J.		53.34	Mean		+0.038	Sept. 2 S.		14.87
Mean A.R. 1865.0		18 ^h 15 ^m 53 ^s .442	A.N.		29.19	Mean A.R. 1865.0		18 ^h 30 ^m 14 ^s .754
			Mean A.R. 1865.0		18 ^h 23 ^m 29 ^s .228	110 HERCULIS.		
SUB POLO.						1862 Aug. 20 S.	18 ^h 39 ^m	51.16 ^{s.}
1862 Mar. 26 S.		-0.30 ^{s.}	42 DRACONIS.			29 S.		51.18
1863 Feb. 23 S.		+1.31	1865 July 22 S.	18 ^h 25 ^m	35.64 ^{s.}	Sept. 25 S.		51.14
Mar. 2 S.		-0.15	24 M.		35.60	Oct. 8 S.		51.15
Dec. 29 S.		-0.10	26 M.		35.59	18 S.		51.25
1864 Jan. 11 S.		+0.69	27 M.		35.71	1863 July 29 S.		51.15
14 S.		+0.94	28 M.		35.85	31 S.		51.14
16 S.		+0.46	31 M.		35.72	Aug. 17 S.		51.28
Feb. 23 S.		+0.79	Aug. 2 M.		35.69	19 S.		51.21
Mar. 27 S.		+0.57	26 S.		35.69	Sept. 10 S.		51.14
1865 Jan. 25 M.		+0.31	29 S.		35.80			
27 M.		+1.04	Mean A.R. 1865.0		18 ^h 25 ^m 35 ^s .699			
30 M.		+0.05						
Feb. 2 S.		+0.42						
24 M.		+0.05						
Mar. 6 M.		-0.76						

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1864 June 21	S.	^{h.} 18 ^{m.} 39 ^{s.} 51.30	1865 Aug. 2	M.	^{h.} 18 ^{m.} 46 ^{s.} 1.16	1864 Aug. 9	M.	^{h.} 18 ^{m.} 46 ^{s.} 57.45
July 3	R.	51.30	4	M.	1.24	12	M.	57.62
5	S.	51.32	9	M.	1.21	14	M.	57.53
9	S.	51.12	12	M.	1.12	15	M.	57.57
13	S.	51.20	14	M.	1.11	19	S.	57.46
14	S.	51.25	15	M.	1.22	23	M.	57.52
28	S.	51.24	19	S.	1.08	24	M.	57.58
Aug. 1	S.	51.20	23	M.	1.20	25	M.	57.45
8	S.	51.14	24	M.	1.26	28	M.	57.58
Sept. 2	S.	51.09	25	M.	1.16	Mean A.R. 1865.0		
6	S.	51.22	28	M.	1.06	18 ^h 46 ^m 57 ^s .508		
9	S.	51.24	Mean A.R. 1865.0			o DRACONIS.		
10	S.	51.27	18 ^h 46 ^m 1 ^s .172			1865 July 17	M.	^{h.} 18 ^{m.} 49 ^{s.} 12.37
26	S.	51.15	σ SAGITTARI.			24	M.	12.42
Mean A.R. 1865.0			1862 July 26	S.	^{h.} 18 ^{m.} 46 ^{s.} 53.60	27	S.	12.55
18 ^h 39 ^m 51 ^s .202			Aug. 11	S.	53.59	28	M.	12.39
β LYRÆ. N.A.			20	S.	53.67	Aug. 2	M.	12.41
1862 July 26	S.	+0.11	Sept. 4	S.	53.67	4	M.	12.49
Aug. 11	S.	+0.05	8	S.	53.51	9	M.	12.34
20	S.	+0.13	Oct. 8	S.	53.56	12	M.	12.50
Sept. 4	S.	+0.08	18	S.	53.62	26	S.	12.48
Oct. 8	S.	+0.19	1863 July 23	S.	53.66	29	S.	12.60
18	S.	+0.06	31	S.	53.69	Mean A.R. 1865.0		
1863 July 31	S.	+0.11	Aug. 15	S.	53.82	18 ^h 49 ^m 12 ^s .455		
Aug. 12	S.	+0.03	17	S.	53.77	θ SERPENTIS. Pr.		
17	S.	+0.09	Sept. 5	S.	53.66	1862 July 26	S.	^{h.} 18 ^{m.} 49 ^{s.} 30.55
Sept. 2	S.	+0.12	10	S.	53.57	Aug. 6	S.	30.44
23	S.	+0.07	1864 June 14	R.	53.66	11	S.	30.49
1864 June 21	S.	+0.04	July 3	R.	53.70	20	S.	30.56
July 3	R.	+0.32	9	S.	53.54	Sept. 4	S.	30.50
5	S.	+0.12	13	S.	53.64	8	S.	30.56
9	S.	+0.13	14	S.	53.59	16	S.	30.47
13	S.	+0.03	26	S.	53.65	Oct. 8	S.	30.46
26	S.	+0.23	28	S.	53.64	18	S.	30.47
Sept. 6	S.	+0.22	Aug. 1	S.	53.62	1863 July 31	S.	30.60
Oct. 17	S.	+0.14	Sept 6	S.	53.72	Aug. 15	S.	30.65
19	S.	+0.04	26	S.	53.41	19	S.	30.50
25	S.	+0.14	Oct. 5	S.	53.63	Sept. 5	S.	30.58
Mean		+0.111	17	S.	53.69	10	S.	30.47
N.A.		5.653	Mean A.R. 1865.0			15	S.	30.54
Mean A.R. 1865.0			18 ^h 46 ^m 53 ^s .635			1864 July 3	R.	30.64
18 ^h 45 ^m 5 ^s .764			ν ² SAGITTARI.			5	S.	30.50
ν ¹ SAGITTARI.			1865 July 17	M.	^{h.} 18 ^{m.} 46 ^{s.} 57.50	9	S.	30.51
1865 July 27	S.	^{h.} 18 ^{m.} 46 ^{s.} 1.26	27	S.	57.52	13	S.	30.49
28	M.	1.24	28	M.	57.48	14	S.	30.49
31	M.	1.09	31	M.	57.45	26	S.	30.55
			Aug. 2	M.	57.48	Sept. 6	S.	30.65
			4	M.	57.43	Mean A.R. 1865.0		
						18 ^h 49 ^m 30 ^s .530		

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
50 DRACONIS.			ϵ AQUILÆ.			1862 Sept. 4 S. ^{h. m. s.} 18 56 35.55		
1863 July 23 S.		^{h. m. s.} 18 50 42.58	1862 July 26 S.		^{h. m. s.} 18 53 29.77	16 S.		35.32
31 S.		42.60	Aug. 6 S.		29.61	Oct. 8 S.		35.45
Aug. 15 S.		42.88	11 S.		29.80	1864 July 13 S.		35.54
19 S.		42.69	Sept. 4 S.		29.70	14 S.		35.53
Sept. 5 S.		42.59	8 S.		29.80	20 S.		35.61
10 S.		42.64	16 S.		29.68	26 S.		35.62
1864 July 3 R.		42.94	Oct. 8 S.		29.69	28 S.		35.54
5 S.		42.73	18 S.		29.82	Sept. 2 S.		35.54
26 S.		42.99	1863 July 23 S.		29.77	6 S.		35.41
28 S.		43.22	31 S.		29.84	10 S.		35.52
Sept. 6 S.		42.94	Aug. 15 S.		29.90	17 S.		35.50
Oct. 5 S.		42.73	19 S.		29.78	26 S.		35.45
7 S.		42.94	Sept. 5 S.		29.84	Oct. 5 S.		35.63
Mean A.R. 1865.0			10 S.		29.90	7 S.		35.64
18 ^h 50 ^m 42 ^s .805			1864 July 5 S.		29.72	Mean A.R. 1865.0		
SUB POLO.			9 S.		29.74	18 ^h 56 ^m 35 ^s .536		
1863 Feb. 21 S.		^{h. m. s.} 18 50 42.69	12 R.		29.74	16 LYRÆ.		
Mar. 2 S.		42.56	13 S.		29.71	1865 July 17 M.		^{h. m. s.} 18 57 37.15
5 S.		42.96	14 S.		29.78	24 M.		37.24
1864 Jan. 27 S.		42.81	26 S.		29.80	28 M.		37.15
Feb. 26 S.		43.32	28 S.		29.79	31 M.		37.08
Mar. 9 S.		42.75	Aug. 8 S.		29.69	Aug. 2 M.		37.14
21 S.		42.03	Sept. 6 S.		29.78	4 M.		37.17
24 S.		42.72	Oct. 5 S.		29.72	9 M.		37.13
1865 Feb. 25 S.		43.09	Mean A.R. 1865.0			12 M.		37.26
Mar. 4 S.		43.16	18 ^h 53 ^m 29 ^s .765			14 M.		37.18
Mean A.R. 1865.0			γ LYRÆ.			15 M.		37.28
18 ^h 50 ^m 42 ^s .809			1865 July 24 M.		^{h. m. s.} 18 53 53.67	23 M.		37.18
18 B. AQUILÆ=5 HEIS AQUILÆ.			28 M.		53.61	24 M.		37.25
1865 July 24 M.		^{h. m. s.} 18 52 14.43	31 M.		53.64	25 M.		37.32
27 S.		14.44	Aug. 2 M.		53.66	Mean A.R. 1865.0		
28 M.		14.40	4 M.		53.59	18 ^h 57 ^m 37 ^s .195		
Aug. 2 M.		14.28	9 M.		53.70	ζ AQUILÆ. N.A.		
9 M.		14.41	12 M.		53.71	1862 July 26 S.		^{s.} +0.25
12 M.		14.34	14 M.		53.64	Aug. 6 S.		+0.13
14 M.		14.35	15 M.		53.64	11 S.		+0.23
15 M.		14.37	23 M.		53.58	20 S.		+0.20
23 M.		14.36	24 M.		53.74	Sept. 4 S.		+0.21
25 M.		14.44	25 M.		53.64	16 S.		+0.20
26 S.		14.36	Mean A.R. 1865.0			Oct. 8 S.		+0.22
29 S.		14.42	18 ^h 53 ^m 53 ^s .652			1863 July 23 S.		+0.32
Mean A.R. 1865.0			σ SAGITTARI.			31 S.		+0.28
18 ^h 52 ^m 14 ^s .383			1862 July 26 S.		^{h. m. s.} 18 56 35.63	Aug. 12 S.		+0.11
			Aug. 6 S.		35.52	14 S.		+0.18
			11 S.		35.58	15 S.		+0.31
			20 S.		35.60	17 S.		+0.07
						22 S.		+0.15
						24 S.		+0.14

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1863 Sept. 5 S.		+0.19	1863 Sept. 23 S.		19 1 44.10	ω AQUILÆ. N.A.		
15 S.		+0.17	1864 July 3 R.		44.13	1862 July 26 S.		+0.07
23 S.		+0.19	5 S.		44.09	Sept. 2 S.		+0.03
1864 July 3 R.		+0.31	9 S.		44.04	1864 July 5 S.		+0.05
5 S.		+0.15	13 S.		44.13	9 S.		+0.10
9 S.		+0.26	14 S.		43.95	14 S.		+0.19
13 S.		+0.16	20 S.		44.17	20 S.		+0.25
14 S.		+0.23	26 S.		44.09	26 S.		+0.12
15 S.		+0.31	28 S.		44.06	Sept. 2 S.		+0.19
26 S.		+0.21	Sept. 2 S.		44.11	6 S.		+0.14
Aug. 8 S.		+0.07	6 S.		44.10	9 S.		+0.13
Sept. 2 S.		+0.20	9 S.		44.12	10 S.		+0.08
6 S.		+0.17	10 S.		44.06	17 S.		+0.08
9 S.		+0.25	17 S.		44.23	27 S.		+0.08
17 S.		+0.17	Oct. 5 S.		44.14	Oct. 5 S.		+0.06
26 S.		+0.13	7 S.		44.16	7 S.		+0.14
27 S.		+0.22	25 S.		44.16	17 S.		+0.12
Oct. 5 S.		+0.15	Mean A.R. 1865.0		19 ^h 1 ^m 44 ^s .116	19 S.		+0.06
7 S.		+0.18				21 S.		+0.10
17 S.		+0.26				Mean		+0.111
19 S.		+0.17				N.A.		28.723
25 S.		+0.20				Mean A.R. 1865.0		19 ^h 11 ^m 28 ^s .834
26 S.		+0.20						
Nov. 3 S.		+0.28						
16 S.		+0.39						
19 S.		+0.17						
Mean		+0.205						
N.A.		12.150						
Mean A.R. 1865.0		18 ^h 59 ^m 12 ^s .355						

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1865 Aug. 2 M.	19 ^h 12 ^m	55.97	1864 July 13 S.		+0.08	1864 July 26 S.	19 ^h 23 ^m	5.37
12 M.		55.42	14 S.		+0.21	Sept. 2 S.		5.44
15 M.		55.87	18 R.		+0.11	6 S.		5.35
23 M.		55.59	26 S.		+0.10	9 S.		5.34
24 M.		55.86	Sept. 2 S.		+0.10	Oct. 7 S.		5.32
25 M.		55.87	6 S.		+0.15	19 S.		5.31
26 S.		55.72	9 S.		+0.24	Mean A.R. 1865.0		
Mean A.R. 1865.0			10 S.		+0.15	19 ^h 23 ^m 5 ^s .313		
19 ^h 12 ^m 55 ^s .765			Oct. 7 S.		+0.14			
			19 S.		+0.08			
			21 S.		+0.12			
			26 S.		+0.18			
			Nov. 3 S.		+0.19			
			16 S.		+0.25			
			19 S.		+0.08			
			Mean		+0.118			
			N.A.		41.398			
			Mean A.R. 1865.0					
			19 ^h 18 ^m 41 ^s .516					

Date.	Observer.	A.R. 1865.0.
1865 Sept. 26 M.		s. 57.36
Oct. 6 M.		57.28
9 M.		57.22
30 M.		57.14
Mean A.R. 1865.0		20 ^h 1 ^m 57 ^s .246
PIAZZI XX. 6.		
1865 Sept. 6 M.	h. m. s.	20 3 54.27
9 S.		54.19
12 M.		54.24
15 M.		54.31
16 S.		54.22
19 M.		54.07
26 M.		54.42
Oct. 3 S.		54.25
Mean A.R. 1865.0		20 ^h 3 ^m 54 ^s .246
PIAZZI XX. 29.		
1865 Sept. 5 S.	h. m. s.	20 6 52.02
6 M.		52.03
12 M.		52.02
15 M.		52.04
16 S.		51.97
19 M.		52.03
25 M.		51.95
26 M.		52.12
27 M.		51.88
29 M.		52.01
Mean A.R. 1865.0		20 ^h 6 ^m 52 ^s .007
ρ AQUILÆ.		
1862 Oct. 7 S.	h. m. s.	20 8 1.88
8 S.		1.92
1863 Aug. 14 S.		1.86
17 S.		1.80
Sept. 28 S.		2.05
Oct. 29 S.		1.80
1864 June 6 R.		1.83
July 29 S.		1.83
Aug. 8 S.		1.87
Sept. 2 S.		1.84
6 S.		1.94
9 S.		1.85
16 S.		1.80

Date.	Observer.	A.R. 1865.0.
1864 Oct. 19 S.	h. m. s.	20 8 1.97
21 S.		1.78
25 S.		1.86
26 S.		1.90
Nov. 1 S.		1.94
2 S.		1.88
3 S.		1.91
Mean A.R. 1865.0		20 ^h 8 ^m 1 ^s .876
κ CEPHEI. A.E.		
1865 Sept. 2 S.	s.	+0.57
5 S.		+0.29
6 M.		-0.01
7 S.		+0.33
11 M.		+0.11
12 M.		+0.14
13 M.		+0.01
15 M.		-0.05
19 M.		+0.17
25 M.		+0.14
27 M.		-0.09
29 M.		+0.34
Oct. 3 S.		+0.07
6 M.		+0.07
Mean		+0.149
A.E.		22.54
Mean A.R. 1865.0		20 ^h 13 ^m 22 ^s .689
23 H. AQUILÆ.		
1865 Sept. 6 M.	h. m. s.	20 16 29.39
7 S.		29.48
11 M.		29.36
12 M.		29.42
14 S.		29.40
15 M.		29.31
19 M.		29.31
25 M.		29.29
27 M.		29.34
29 M.		29.33
Oct. 6 M.		29.42
Mean A.R. 1865.0		20 ^h 16 ^m 29 ^s .368

Date.	Observer.	A.R. 1865.0.
γ CYGNI.		
1862 Sept. 29 S.	h. m. s.	20 17 23.01
Oct. 8 S.		23.11
1863 Sept. 7 S.		23.00
23 S.		22.96
1864 Sept. 6 S.		23.03
9 S.		23.04
Oct. 5 S.		22.98
Nov. 1 S.		22.99
3 S.		23.02
Dec. 8 S.		23.01
1865 Oct. 9 M.		23.09
30 M.		23.02
Nov. 1 S.		22.93
Mean A.R. 1865.0		20 ^h 17 ^m 23 ^s .015
π CAPRICORNI. A.E.		
1865 Sept. 5 S.	s.	+0.06
6 M.		+0.14
7 S.		+0.15
11 M.		+0.10
12 M.		+0.21
14 S.		+0.13
15 M.		+0.03
16 S.		+0.08
19 M.		-0.02
23 S.		+0.07
25 M.		+0.11
26 M.		+0.21
27 M.		+0.06
29 M.		+0.03
Oct. 3 S.		+0.11
6 M.		+0.15
30 M.		-0.02
Nov. 1 S.		-0.02
Mean		+0.088
A.E.		35.448
Mean A.R. 1865.0		20 ^h 19 ^m 35 ^s .536
ρ CAPRICORNI. N.A.		
1862 July 18 S.	s.	+0.28
Aug. 11 S.		+0.27
Sept. 25 S.		+0.23
Oct. 7 S.		+0.29
8 S.		+0.15
1863 Aug. 14 S.		+0.23
18 S.		+0.24

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1863 Sept. 24 S.		+0.14	θ CEPHEI.			1864 Oct. 10 S.		^{h.} 20 ^{m.} 30 ^{s.} 34.08
28 S.		+0.16				25 S.		33.94
1864 Aug. 8 S.		+0.28	1862 Sept. 8 S.		^{h.} 20 ^{m.} 27 ^{s.} 18.61	Nov. 1 S.		34.30
Sept. 6 S.		+0.37	Oct. 7 S.		18.78	3 S.		33.70
16 S.		+0.25	1863 Aug. 14 S.		18.54	4 S.		34.21
Oct. 5 S.		+0.34	18 S.		18.74	10 S.		33.84
10 S.		+0.40	Sept. 28 S.		18.56	Mean A.R. 1865.0		
25 S.		+0.34	Nov. 4 S.		18.53	20 ^h 30 ^m 34 ^s .096		
26 S.		+0.30	1864 June 6 R.		18.82	Pl. XX. 257 = Gr. 3241. Sub		
Nov. 1 S.		+0.31	Sept. 6 S.		18.72	Polo.		
2 S.		+0.25	Oct. 5 S.		18.75			
3 S.		+0.32	10 S.		18.76	1863 Mar. 11 S.		^{h.} 20 ^{m.} 30 ^{s.} 33.91
Mean		+0.271	Mean A.R. 1865.0			1864 Feb. 26 S.		34.53
N.A.		9.254	20 ^h 27 ^m 18 ^s .681			Mar. 7 S.		34.41
Mean A.R. 1865.0			θ CEPHEI. Sub Polo.			1865 Mar. 17 M.		34.45
20 ^h 21 ^m 9 ^s .525						27 M.		34.14
PIAZZI XX. 174			1863 Mar. 11 S.		^{h.} 20 ^{m.} 27 ^{s.} 18.76	April 3 M.		34.27
1865 Sept. 5 S.		^{h.} 20 ^{m.} 25 ^{s.} 0.48	30 S.		18.60	4 M.		34.44
6 M.		0.53	April 1 S.		18.64	5 M.		34.28
7 S.		0.32	1864 Feb. 26 S.		18.91	Mean A.R. 1865.0		
11 M.		0.49	Mar. 7 S.		18.69	20 ^h 30 ^m 34 ^s .304		
12 M.		0.53	April 7 R.		18.30	1 AQUARI.		
15 M.		0.49	1865 April 3 M.		18.86	1865 Sept. 7 S.		^{h.} 20 ^{m.} 32 ^{s.} 29.88
23 S.		0.49	4 M.		19.19	11 M.		29.82
25 M.		0.53	5 M.		18.89	12 M.		29.84
26 M.		0.44	Mean A.R. 1865.0			13 M.		29.78
Mean A.R. 1865.0			20 ^h 27 ^m 18 ^s .760			14 S.		29.74
20 ^h 25 ^m 0 ^s .478			R.C. 4894.			15 M.		29.79
ϵ DELPHINI. A.E.			1865 Sept. 7 S.		^{h.} 20 ^{m.} 29 ^{s.} 33.33	19 M.		29.68
1865 Sept. 6 M.		+0.05	11 M.		32.80	23 S.		29.86
7 S.		+0.10	12 M.		33.07	25 M.		29.77
11 M.		+0.09	13 M.		33.75	Mean A.R. 1865.0		
12 M.		+0.09	14 S.		33.31	20 ^h 32 ^m 29 ^s .796		
13 M.		+0.02	15 M.		33.55	α DELPHINI. C. des T.		
14 S.		+0.16	19 M.		33.03	1862 Sept. 8 S.		^{s.} -0.11
15 M.		+0.20	23 S.		32.73	25 S.		0.00
19 M.		-0.01	25 M.		33.41	29 S.		+0.03
23 S.		+0.07	Mean A.R. 1865.0			Oct. 7 S.		-0.02
25 M.		+0.09	20 ^h 29 ^m 33 ^s .220			8 S.		+0.02
26 M.		+0.10	Pl. XX. 257 = Gr. 3241.			1863 Aug. 18 S.		-0.06
27 M.		+0.13	1863 Aug. 18 S.		^{h.} 20 ^{m.} 30 ^{s.} 34.00	1864 Aug. 8 S.		-0.12
30 S.		-0.04	1864 June 6 R.		34.27	Sept. 6 S.		+0.10
Oct. 3 S.		+0.13	Sept. 6 S.		34.24	15 S.		+0.02
6 M.		+0.12	15 S.		34.19	16 S.		-0.09
Mean		+0.087	16 S.		34.08	Oct. 5 S.		-0.09
A.E.		45.761	Oct. 5 S.		34.30	25 S.		+0.02
Mean A.R. 1865.0								
20 ^h 26 ^m 45 ^s .848								

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
PIAZZI XXI. 1.			4 PISCIS AUSTRI.			α CEPHEI. Sub Polo.		
1865 Sept. 11	M. 21	2 55.43	1865 Sept. 11	M. 21	9 44.85	1862 April 7	S.	—0.32
12	M.	55.35	12	M.	44.85	1863 Feb. 7	S.	—0.12
13	M.	55.47	15	M.	44.75	Mar. 2	S.	+0.14
14	S.	55.39	19	M.	44.94	April 21	S.	+0.10
15	M.	55.28	26	M.	44.91	22	S.	+0.19
19	M.	55.53	27	M.	44.76	1864 Mar. 12	S.	+0.12
23	S.	55.36	29	M.	44.69	April 15	S.	—0.32
26	M.	55.39	30	S.	44.79	22	S.	+0.12
27	M.	55.31	Oct. 6	M.	44.88	27	S.	+0.13
Mean A.R. 1865.0			Mean A.R. 1865.0			1865 Mar. 17	M.	—0.09
21 ^h 2 ^m 55 ^s .390			21 ^h 9 ^m 44 ^s .824			April 5	M.	—0.01
ζ CYGNI. N.A.			11 B. PEGASI.			Mean		—0.005
1862 Sept. 4	S.	+0.05	1865 Sept. 14	S. 21	14 6.26	B.J.		21.327
10	S.	—0.06	15	M.	6.16	Mean A.R. 1865.0		
29	S.	—0.04	27	M.	6.09	21 ^h 15 ^m 21 ^s .322		
Oct. 7	S.	+0.02	29	M.	6.07	326 B. CYGNI.		
8	S.	+0.03	30	S.	6.06	1865 Sept. 11	M. 21	15 40.86
1863 Sept. 23	S.	+0.20	Oct. 3	S.	6.07	12	M.	40.95
28	S.	+0.09	6	M.	6.12	14	S.	40.99
Nov. 4	S.	+0.07	9	M.	6.10	15	M.	40.99
1864 July 29	S.	+0.19	13	M.	6.08	19	M.	40.98
30	S.	+0.20	30	M.	6.09	26	M.	41.01
Aug. 1	S.	+0.09	Mean A.R. 1865.0			27	M.	40.82
Sept. 6	S.	+0.09	21 ^h 14 ^m 6 ^s .110			29	M.	40.93
10	S.	+0.13	α CEPHEI. B.J.			30	S.	40.89
16	S.	0.00	1862 Sept. 25	S.	+0.10	Oct. 3	S.	40.89
17	S.	+0.09	29	S.	(—0.48)	10	S.	40.89
Oct. 7	S.	+0.21	1863 June 29	S.	—0.09	Mean A.R. 1865.0		
17	S.	+0.03	Aug. 12	S.	—0.08	21 ^h 15 ^m 40 ^s .927		
Nov. 11	S.	+0.02	18	S.	—0.03	PIAZZI XXI. 120.		
Dec. 8	S.	—0.01	Sept. 17	S.	+0.06	1865 Sept. 30	S. 21	18 34.41
Mean		+0.074	23	S.	+0.13	Oct. 3	S.	34.57
N.A.		11.414	28	S.	—0.01	10	S.	34.52
Mean A.R. 1865.0			Nov. 4	S.	—0.28	11	M.	34.37
21 ^h 7 ^m 11 ^s .488			19	S.	+0.14	13	M.	34.42
114 B. CAPRICORNI.			Dec. 1	S.	+0.11	Nov. 11	M.	34.33
1865 Sept. 11	M. 21	7 33.41	1867 June 6	R.	—0.05	14	M.	34.52
19	M.	33.34	Aug. 1	S.	+0.01	16	M.	34.59
26	M.	33.39	Sept. 10	S.	+0.11	17	M.	34.58
27	M.	(33.58)	15	S.	+0.18	Mean A.R. 1865.0		
29	M.	33.16	16	S.	—0.12	21 ^h 18 ^m 34 ^s .479		
30	S.	33.32	17	S.	+0.03			
Oct. 6	M.	33.30	Oct. 10	S.	—0.13			
9	M.	33.27	Mean		+0.005			
10	S.	33.25	B.J.		21.327			
11	M.	(33.06)	Mean A.R. 1865.0					
Mean A.R. 1865.0			21 ^h 15 ^m 1 ^s .332					
21 ^h 7 ^m 33 ^s .305								

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
70 CYGNI.			1863 Apr. 9 S. ^{s.} +0.63			β CEPHEI. B.J.		
1865 Sept. 11 M.	21	51.25	22 S. ^{s.} +0.71			1862 Sept. 14 S. ^{s.} -0.22		
14 S.		51.41	23 S. ^{s.} +0.13			10 S. ^{s.} +0.02		
15 M.		51.23	1864 Mar. 12 S. ^{s.} +0.19			23 S. ^{s.} -0.03		
27 M.		51.30	Apr. 15 S. ^{s.} -0.23			Nov. 4 S. ^{s.} -0.31		
29 M.		51.17	22 S. ^{s.} +0.75			1863 Aug. 18 S. ^{s.} -0.06		
30 S.		51.22	1865 Mar. 25 S. ^{s.} +0.47			Sept. 17 S. ^{s.} +0.04		
Oct. 3 S.		51.30	27 M. ^{s.} +0.87			Nov. 19 S. ^{s.} -0.01		
6 M.		51.34	28 M. ^{s.} +0.23			25 S. ^{s.} +0.18		
9 M.		51.19	Apr. 13 M. ^{s.} -0.02			Dec. 1 S. ^{s.} +0.25		
12 M.		51.14	18 S. ^{s.} +0.79			1864 Sept. 6 S. ^{s.} +0.10		
Mean A.R. 1865.0			Mean ^{s.} +0.409			7 S. ^{s.} +0.13		
21 ^h 21 ^m 51 ^s .255			T.H.S. 15.52			10 S. ^{s.} +0.09		
119 CEPHEI B. T.H.S.			Mean A.R. 1865.0			16 S. ^{s.} -0.07		
1862 Aug. 20 S. ^{s.} +0.56			21 ^h 24 ^m 15 ^s .929			17 S. ^{s.} -0.10		
Sept. 4 S. ^{s.} +0.30			β AQUARI. N.A.			Oct. 7 S. ^{s.} +0.04		
10 S. ^{s.} -0.08			1862 Nov. 4 S. ^{s.} -0.09			10 S. ^{s.} +0.09		
23 S. ^{s.} -0.73			1863 Sept. 17 S. ^{s.} +0.14			Dec. 8 M. ^{s.} -0.11		
29 S. ^{s.} -0.77			28 S. ^{s.} -0.03			Mean ^{s.} +0.002		
1863 June 23 S. ^{s.} -0.30			1864 Sept. 6 S. ^{s.} +0.14			B.J. 54.371		
July 29 S. ^{s.} -0.77			7 S. ^{s.} -0.02			Mean A.R. 1865.0		
Aug. 14 S. ^{s.} -0.59			16 S. ^{s.} -0.11			21 ^h 26 ^m 54 ^s .373		
Aug. 18 S. ^{s.} -0.80			17 S. ^{s.} -0.18			β CEPHEI. SUB POLO.		
Sept. 4 S. ^{s.} -0.15			Oct. 7 S. ^{s.} -0.23			1863 Feb. 7 S. ^{s.} +0.10		
5 S. ^{s.} -0.23			10 S. ^{s.} -0.21			Mar. 9 S. ^{s.} +0.26		
7 S. ^{s.} -0.70			17 S. ^{s.} -0.28			1864 Mar. 12 S. ^{s.} +0.18		
Nov. 19 S. ^{s.} -0.75			Nov. 3 R. ^{s.} -0.09			14 S. ^{s.} +0.26		
25 S. ^{s.} -0.67			10 S. ^{s.} -0.08			24 R. ^{s.} +0.17		
1864 Aug. 1 S. ^{s.} -0.69			25 S. ^{s.} -0.04			Apr. 7 R. ^{s.} -0.46		
Nov. 16 S. ^{s.} -1.25			29 S. ^{s.} -0.12			15 S. ^{s.} -0.25		
1865 Sept. 30 S. ^{s.} -0.65			Dec. 8 M. ^{s.} -0.24			16 R. ^{s.} -0.35		
Mean ^{s.} +0.588			20 S. ^{s.} -0.25			27 S. ^{s.} -0.01		
T.H.S. 15.52			1865 Nov. 14 M. ^{s.} -0.14			1865 Mar. 17 M. ^{s.} +0.25		
Mean A.R. 1865.0			Mean ^{s.} +0.126			Apr. 13 M. ^{s.} -0.21		
21 ^h 24 ^m 16 ^s .108			N.A. 26.930			17 M. ^{s.} +0.11		
119 CEPHEI B. SUB POLO.			Mean A.R. 1865.0			25 M. ^{s.} +0.12		
1862 Mar. 28 S. ^{s.} +0.73			21 ^h 24 ^m 27 ^s .056			Mean ^{s.} +0.042		
Apr. 7 S. ^{s.} +0.65			26 B PEGASI = 11 HEIS			B.J. 54.371		
19 S. ^{s.} -0.16			PEGASI.			Mean A.R. 1865.0		
25 S. ^{s.} +0.18			1865 Sept. 11 M. ^{h. m. s.} 21 24 37.97			21 ^h 26 ^m 54 ^s .413		
1863 Feb. 7 S. ^{s.} +0.71			13 M. ^{s.} 37.92			122 B CEPHEI = GR. 3511.		
25 S. ^{s.} +0.29			15 M. ^{s.} 37.87			1865 Sept. 11 M. ^{h. m. s.} 21 28 41.92		
Mar. 2 S. ^{s.} +0.45			27 M. ^{s.} 37.82			13 M. ^{s.} 41.93		
9 S. ^{s.} +0.79			29 M. ^{s.} 37.91			15 M. ^{s.} 42.54		
11 S. ^{s.} -0.22			Oct. 6 M. ^{s.} 37.91			27 M. ^{s.} 41.55		
27 S. ^{s.} +0.95			11 M. ^{s.} 37.91					
30 S. ^{s.} -0.09			13 M. ^{s.} 37.97					
			23 M. ^{s.} 37.86					
			25 M. ^{s.} 37.94					
			Mean A.R. 1865.0					
			21 ^h 24 ^m 37 ^s .908					

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1865 Sept. 29	M.	21 28 41.95	<i>i</i> PISCIS AUSTRINI.			Mean		—0.010
30	S.	42.18	1865 Sept. 11	M.	21 36 54.07	<i>C. des T.</i>		35.200
Oct. 3	S.	42.50	13	M.	53.96	Mean A.R. 1865.0		21 ^h 39 ^m 35 ^s .190
6	M.	42.51	15	M.	54.05			
11	M.	42.18	19	M.	54.11			
12	M.	42.37	26	M.	54.12			
Mean A.R. 1865.0		21 ^h 28 ^m 42 ^s .163	27	M.	53.94	<i>θ</i> PISCIS AUSTRINI.		
F 376 AQUARI = B.F. 2941.			29	M.	53.99	1865 Sept. 11	M.	21 39 48.48
1865 Sept. 11	M.	21 30 37.96	30	S.	53.99	13	M.	48.45
13	M.	37.92	Oct. 3	S.	53.97	15	M.	48.46
15	M.	37.81	6	M.	53.91	19	M.	48.49
27	M.	37.86	Mean A.R. 1865.0		21 ^h 36 ^m 54 ^s .011	26	M.	48.44
29	M.	37.84	<i>ε</i> PEGASI. N.A.			27	M.	48.44
30	M.	37.86	1862 Sept. 4	S.	+0.01	29	M.	48.51
Oct. 3	S.	37.76	10	S.	+0.08	30	S.	48.43
6	M.	37.83	23	S.	+0.11	Oct. 3	S.	48.55
9	M.	37.77	Oct. 7	S.	+0.04	6	M.	48.51
11	M.	37.69	1863 Sept. 17	S.	+0.10	Mean A.R. 1865.0		21 ^h 39 ^m 48 ^s .476
12	M.	37.78	1864 Sept. 6	S.	(+0.28)			
Mean A.R. 1865.0		21 ^h 30 ^m 37 ^s .825	10	S.	+0.01	388 B CYGNI = GR. 3571.		
<i>γ</i> CAPRICORNI.			16	S.	—0.06	1865 Sept. 11	M.	21 42 43.46
1862 Sept. 4	S.	21 32 36.45	17	S.	+0.07	15	M.	43.41
10	S.	36.56	Oct. 7	S.	+0.01	19	M.	43.45
23	S.	36.45	10	S.	+0.06	26	M.	43.47
Nov. 4	S.	36.70	17	S.	+0.07	27	M.	43.36
1863 Sept. 17	S.	36.57	1865 Oct. 11	M.	+0.02	29	M.	43.50
Nov. 25	S.	36.51	12	M.	—0.01	30	S.	43.53
Dec. 1	S.	36.47	Mean		+0.039	Oct. 3	S.	43.54
1864 June 6	R.	36.46	N.A.		33.307	6	M.	43.49
Sept. 7	S.	36.29	Mean A.R. 1865.0		21 ^h 37 ^m 33 ^s .346	9	M.	43.46
10	S.	36.48	<i>δ</i> CAPRICORNI. <i>C. des T.</i>			Mean A.R. 1865.0		21 ^h 42 ^m 43 ^s .467
16	S.	36.55	1862 Sept. 4	S.	+0.06	195 HEIS CYGNI = R.C. 5408.		
17	S.	36.52	10	S.	+0.08	1865 Sept. 11	M.	21 44 10.94
Oct. 7	S.	36.57	23	S.	+0.02	13	M.	10.84
10	S.	36.61	1863 Nov. 25	S.	—0.04	15	M.	10.95
17	S.	36.67	Dec. 1	S.	—0.08	19	M.	10.78
Nov. 10	M.	36.48	1864 Sept. 7	S.	—0.02	26	M.	10.75
16	S.	36.56	10	S.	—0.02	27	M.	10.78
25	S.	36.50	16	S.	+0.06	29	M.	10.77
1865 Sept. 30	S.	36.73	17	S.	—0.01	30	S.	10.86
Oct. 3	S.	36.56	Oct. 7	S.	+0.07	Oct. 3	S.	10.92
6	M.	36.52	10	S.	+0.12	6	M.	10.87
Mean A.R. 1865.0		21 ^h 32 ^m 36 ^s .534	17	S.	—0.04	9	M.	10.82
			Nov. 25	S.	—0.03	Mean A.R. 1865.0		21 ^h 44 ^m 10 ^s .844
			Dec. 1	S.	—0.10			
			8	S.	—0.02			
			1865 Oct. 11	M.	—0.21			

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
16 PEGASI. N.A.			1865 Oct. 10 S. ^{h.} 21 ^{m.} 50 ^{s.} 21.51			μ PISCIS AUSTRINI.		
1862 Sept. 4 S.		+0.00	11 M.		21.52	1865 Sept. 11 M.	^{h.} 22 ^{m.} 0 ^{s.} 30.16	
10 S.		+0.08	Mean A.R. 1865.0			13 M.		30.00
23 S.		+0.17	21 ^h 50 ^m 21 ^s .432			15 M.		30.06
Oct. 7 S.		+0.06	μ PISCIS AUSTRINI.			19 M.		30.20
Nov. 4 S.		+0.17	1865 Sept. 11 M. ^{h.} 21 ^{m.} 53 ^{s.} 4.67			26 S.		30.07
1863 Aug. 29 S.		-0.06	13 M.		4.63	27 M.		30.02
Nov. 3 S.		+0.15	15 M.		4.53	30 S.		30.08
1864 Sept. 10 S.		+0.04	19 M.		4.67	Oct. 3 S.		30.15
16 S.		+0.01	26 S.		4.62	6 M.		30.09
Oct. 7 S.		0.00	27 M.		4.56	7 S.		30.02
10 S.		+0.08	Oct. 3 S.		4.67	Mean A.R. 1865.0		
11 S.		-0.06	6 M.		4.50	22 ^h 0 ^m 30 ^s .085		
17 S.		+0.15	7 S.		4.58	ι PEGASI.		
Nov. 10 M.		+0.07	9 M.		4.59	1862 Sept. 10 S.	^{h.} 22 ^{m.} 0 ^{s.} 43.68	
11 M.		+0.02	Mean A.R. 1865.0			23 S.		43.74
30 M.		+0.14	21 ^h 53 ^m 4 ^s .602			Oct. 7 S.		43.66
Dec. 8 M.		-0.04	MAYER 911 = B.A.C. 7665.			Nov. 4 S.		43.60
9 S.		-0.02	1865 Sept. 11 M. ^{h.} 21 ^{m.} 54 ^{s.} 45.80			Dec. 11 S.		43.69
1865 Nov. 9 S.		+0.03	13 M.		45.96	1863 Sept. 4 S.		43.52
Mean		+0.052	15 M.		45.73	Nov. 25 S.		43.55
N.A.		55.240	19 M.		45.95	Dec. 7 S.		43.83
Mean A.R. 1865.0			26 S.		45.84	1864 Sept. 10 S.		43.79
21 ^h 46 ^m 55 ^s .292			27 M.		45.83	16 S.		43.61
PIAZZI XXI. 320.			30 S.		45.98	17 S.		43.75
1865 Sept. 11 M. ^{h.} 21 ^{m.} 47 ^{s.} 7.35			Oct. 3 S.		45.90	26 S.		43.48
13 M.		7.39	6 M.		45.88	29 S.		43.60
15 M.		7.31	7 S.		45.81	30 S.		43.79
19 M.		7.38	Mean A.R. 1865.0			Oct. 7 S.		43.71
26 S.		7.57	21 ^h 54 ^m 45 ^s .868			11 S.		43.63
27 M.		7.23	32. AQUARI.			17 S.		43.69
30 S.		7.34	1865 Sept. 11 M. ^{h.} 21 ^{m.} 57 ^{s.} 50.86			Nov. 11 M.		43.71
Oct. 3 S.		7.53	13 M.		50.88	16 S.		43.81
6 M.		7.31	15 M.		50.72	25 S.		43.51
9 M.		7.29	19 M.		51.01	30 M.		43.78
Mean A.R. 1865.0			25 M.		50.90	Dec. 1 S.		43.67
21 ^h 47 ^m 7 ^s .370			26 S.		50.86	9 S.		43.74
17 PEGASI.			27 M.		50.97	Mean A.R. 1865.0		
1865 Sept. 13 M. ^{h.} 21 ^{m.} 50 ^{s.} 21.40			30 S.		50.85	22 ^h 0 ^m 43 ^s .676		
15 M.		21.47	Oct. 3 S.		50.97	Pl. XXI. 421 = Br. 2912.		
19 M.		21.37	6 M.		50.88	1865 Sept. 11 M. ^{h.} 22 ^{m.} 3 ^{s.} 19.85		
26 S.		21.55	7 S.		50.79	13 M.		19.83
27 M.		21.33	Mean A.R. 1865.0			15 M.		19.86
30 S.		21.35	21 ^h 57 ^m 50 ^s .881			19 M.		19.89
Oct. 3 S.		21.46	μ PISCIS AUSTRINI.			26 S.		19.92
7 S.		21.35	1865 Sept. 11 M. ^{h.} 21 ^{m.} 50 ^{s.} 21.51			27 M.		19.87
9 M.		21.44	11 M.		21.52			
			Mean A.R. 1865.0					
			21 ^h 50 ^m 21 ^s .432					

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1865 Oct. 6 M.		^{h.} 22 ^{m.} 3 ^{s.} 20.02	1865 Oct. 6 M.		^{h.} 22 ^{m.} 8 ^{s.} 5.20	γ AQUARI. C. des T.		
7 S.		19.80	7 S.		5.23	1863 Oct. 22 S.		+0.01
9 M.		19.83	23 M.		5.22	1864 Sept. 10 S.		+0.11
Mean A.R. 1865.0			25 M.		5.19	26 S.		+0.04
22 ^h 3 ^m 19 ^s .874			Mean A.R. 1865.0			Oct. 17 S.		+0.23
			22 ^h 8 ^m 5 ^s .222			Nov. 10 M.		+0.07
Pr. XXII. 19.			θ AQUARI. N.A.			11 M.		+0.01
1865 Sept. 11 M.		^{h.} 22 ^{m.} 6 ^{s.} 9.15	1862 Sept. 4 S.		+0.04	14 S.		-0.04
13 M.		9.16	10 S.		+0.19	30 M.		-0.02
15 M.		9.18	23 S.		+0.14	Dec. 1 S.		-0.05
26 S.		9.06	Oct. 7 S.		+0.08	8 M.		+0.01
27 M.		9.20	Nov. 3 S.		+0.10	9 S.		+0.08
Oct. 6 M.		9.09	Dec. 11 S.		-0.03	1865 Sept. 11 M.		+0.04
9 M.		9.03	1863 Nov. 3 S.		+0.06	Oct. 6 M.		+0.03
23 M.		9.08	Dec. 7 S.		+0.10	23 M.		+0.10
25 M.		9.21	1864 Sept. 10 S.		+0.09	25 M.		-0.02
30 M.		8.93	16 S.		+0.14	30 M.		-0.13
Mean A.R. 1865.0			17 S.		+0.08	Nov. 1 S.		-0.03
22 ^h 6 ^m 9 ^s .109			30 S.		+0.09	9 S.		+0.01
ζ CEPHEI. C. des T.			Oct. 11 S.		+0.12	Mean		+0.025
1862 Sept. 10 S.		-0.01	Nov. 10 M.		-0.01	C. des T.		41.00
23 S.		-0.14	11 M.		+0.18	Mean A.R. 1865.0		
Dec. 11 S.		-0.18	Nov. 25 S.		+0.09	22 ^h 14 ^m 41 ^s .025		
1863 June 29 S.		-0.13	29 S.		+0.01	PIAZZI XXII. 81.		
30 S.		-0.02	30 M.		+0.13	1865 Sept. 11 M.		^{h.} 22 ^{m.} 16 ^{s.} 27.23
July 22 S.		+0.06	Dec. 1 S.		-0.03	12 M.		27.38
Sept. 4 S.		-0.23	8 M.		+0.07	19 M.		27.26
Nov. 2 S.		+0.12	1865 Oct. 23 M.		+0.17	Oct. 6 M.		27.39
3 S.		+0.09	Nov. 9 S.		+0.06	7 S.		27.38
25 S.		-0.06	Mean		+0.085	23 M.		27.22
Dec. 7 S.		+0.31	N.A.		42.445	24 S.		27.41
1864 Sept. 10 S.		+0.16	Mean A.R. 1865.0			25 M.		27.24
Nov. 10 M.		-0.05	22 ^h 9 ^m 42 ^s .530			30 M.		27.07
11 M.		-0.12	BRADLEY 2942.			Mean A.R. 1865.0		
30 M.		+0.06	1865 Sept. 11 M.		^{h.} 22 ^{m.} 10 ^{s.} 25.36	22 ^h 16 ^m 27 ^s .287		
Dec. 8 M.		0.00	13 M.		25.32	3 LACERTÆ.		
Mean		-0.009	19 M.		25.29	1865 Sept. 11 M.		^{h.} 22 ^{m.} 18 ^{s.} 15.43
C. des T.		10.36	27 M.		25.30	19 M.		15.32
Mean A.R. 1865.0			Oct. 6 M.		25.60	29 M.		15.42
22 ^h 6 ^m 10 ^s .351			9 M.		25.37	Oct. 7 S.		15.38
1 H. LACERTÆ.			23 M.		25.10	9 M.		15.40
1865 Sept. 11 M.		^{h.} 22 ^{m.} 8 ^{s.} 5.25	25 M.		25.54	11 M.		15.46
13 M.		5.27	30 M.		25.27	12 M.		15.38
15 M.		5.23	Nov. 1 S.		25.47	23 M.		15.25
19 M.		5.16	Mean A.R. 1865.0			24 S.		15.30
26 S.		5.25	22 ^h 10 ^m 25 ^s .362			25 M.		15.33
						30 M.		15.24
						Mean A.R. 1865.0		
						22 ^h 18 ^m 15 ^s .355		

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
LL 43886=18 HEIS LACERTÆ.			GROOMBRIDGE 3804.			Mean —0.097		
1865 Sept. 11	M.	22 21 31.80	1865 Sept. 19	M.	22 26 28.56	A.E. 53.502		
19	M.	31.71	27	M.	28.38	Mean A.R. 1865.0		
29	M.	31.82	29	M.	28.48	22 ^h 29 ^m 53 ^s .405		
Oct. 9	M.	31.85	Oct. 11	M.	28.65	ε PISCIS AUSTRINI.		
11	M.	31.69	12	M.	28.55	1865 Sept. 12	M.	22 33 11.12
13	M.	31.71	13	M.	28.52	27	M.	11.01
23	M.	31.61	23	M.	28.58	29	M.	11.07
25	M.	31.71	24	S.	28.55	Oct. 9	M.	11.00
30	M.	31.70	Nov. 1	S.	28.58	11	M.	11.07
Nov. 9	S.	31.74	Dec. 1	M.	28.59	12	M.	10.99
Mean A.R. 1865.0			Mean A.R. 1865.0			13	M.	11.13
22 ^h 21 ^m 31 ^s .734			22 ^h 26 ^m 28 ^s .544			23	M.	11.07
σ AQUARI.			η AQUARI. N.A.			24	S.	11.03
1862 Sept. 4	S.	22 23 30.17	1862 Sept. 10	S.	+0.03	Nov. 1	S.	11.04
10	S.	30.00	Oct. 30	S.	+0.19	Mean A.R. 1865.0		
23	S.	30.11	Nov. 3	S.	+0.27	22 ^h 33 ^m 11 ^s .053		
Oct. 30	S.	30.24	Dec. 11	S.	+0.08	PIAZZI XXII. 186.		
Nov. 4	S.	30.20	1863 Sept. 29	S.	+0.06	1865 Sept. 27	M.	22 34 11.37
Dec. 11	S.	30.04	Oct. 22	S.	-0.10	29	M.	11.41
1863 Oct. 22	S.	30.15	1864 Sept. 10	S.	+0.15	Oct. 9	M.	11.44
1864 Sept. 10	S.	30.18	16	S.	+0.08	11	M.	11.45
16	S.	30.03	17	S.	-0.03	12	M.	11.35
26	S.	30.12	26	S.	+0.04	13	M.	11.44
27	S.	30.08	27	S.	+0.09	24	S.	11.48
30	S.	30.15	30	S.	+0.09	Nov. 14	M.	11.38
Oct. 7	S.	30.14	Oct. 11	S.	+0.09	Dec. 1	M.	11.43
11	S.	30.00	Nov. 10	M.	+0.13	Mean A.R. 1865.0		
17	S.	30.14	14	S.	+0.15	22 ^h 34 ^m 11 ^s .417		
Nov. 10	M.	30.11	30	M.	+0.10	ζ PEGASI. N.A.		
11	M.	30.14	Dec. 8	M.	+0.10	1862 Sept. 4	S.	+0.14
14	S.	30.09	9	S.	+0.14	23	S.	+0.23
30	M.	30.12	1865 Oct. 12	M.	+0.21	Nov. 3	S.	+0.26
Dec. 9	S.	30.10	13	M.	+0.08	4	S.	0.00
Mean A.R. 1865.0			23	M.	0.00	Dec. 12	S.	+0.14
22 ^h 23 ^m 30 ^s .116			24	S.	+0.12	1863 Jan. 1	S.	+0.20
32 H. CEPHEI.			Nov. 9	S.	+0.13	Dec. 15	S.	+0.05
1865 Sept. 11	M.	22 23 35.19	Mean		+0.096	23	S.	+0.20
19	M.	35.20	N.A.		25.053	Oct. 10	S.	+0.21
29	M.	34.65	Mean A.R. 1865.0			16	S.	0.00
Oct. 9	M.	35.44	22 ^h 28 ^m 25 ^s .149			17	S.	+0.09
11	M.	35.40	226 B CEPHEI=91 HEIS			26	S.	+0.17
12	M.	35.75	CEPHEI. A.E.			27	S.	+0.11
23	M.	35.03	1865 Oct. 12	M.	+0.01	30	S.	+0.16
24	S.	35.27	13	M.	-0.47			
30	M.	34.17	23	M.	-0.31			
Mean A.R. 1865.0			24	S.	+0.11			
22 ^h 23 ^m 35 ^s .122			Nov. 1	S.	+0.19			
			9	S.	-0.11			

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1864 Oct. 7 S.		+0.15	1865 Oct. 9 M. 22 38		4.71	<i>i</i> CEPHEI. A.E.		
11 S.		+0.20	11 M.		4.68	1865 Oct. 3 S.		+0.10
26 S.		+0.19	12 M.		4.55	7 S.		+0.25
Nov. 10 M.		+0.06	13 M.		4.47	9 M.		-0.01
11 M.		+0.21	23 M.		4.46	12 M.		-0.01
14 S.		+0.21	24 S.		4.58	13 M.		-0.21
30 M.		+0.14	30 M.		4.40	17 S.		-0.04
Dec. 1 S.		+0.17	Mean A.R. 1865.0		22 ^h 38 ^m 4 ^s .539	23 M.		-0.16
9 S.		+0.18				25 M.		-0.04
Mean		+0.151				30 M.		-0.03
N.A.		43.661				Mean		-0.017
Mean A.R. 1865.0						A.E. tables.		52.823
		22 ^h 34 ^m 43 ^s .812				Mean A.R. 1865.0		22 ^h 44 ^m 52 ^s .806
PIAZZI XXII. 195.			<i>ξ</i> PEGASI.			<i>δ</i> AQUARI.		
1865 Oct. 23 M. 22 35		17.46	1862 Sept. 4 S. 22 39		56.86	1862 Nov. 3 S. 22 47 (29.28)		
Nov. 14 M.		17.56	10 S.		56.96	1863 Sept. 17 S.		29.00
Mean A.R. 1865.0		22 ^h 35 ^m 17 ^s .510	23 S.		56.99	24 S.		28.88
<i>η</i> PEGASI.			Nov. 3 S.		57.07	28 S.		28.98
1862 Sept. 4 S. 22 36		40.64	Dec. 11 S.		57.06	1864 Sept. 26 S.		29.05
10 S.		40.62	1863 Dec. 15 S.		56.89	30 S.		29.00
23 S.		40.67	10 S.		57.05	Oct. 11 S.		28.95
1863 Jan. 1 S.		40.60	16 S.		56.95	17 S.		29.05
Nov. 3 S.		40.54	17 S.		57.00	21 S.		28.96
Dec. 15 S.		40.58	26 S.		56.87	25 S.		29.08
13 S.		40.65	27 S.		56.94	10 M.		28.97
1864 Sept. 10 S.		40.64	30 S.		56.97	14 S.		29.07
16 S.		40.50	Oct. 7 S.		56.99	29 S.		29.00
17 S.		40.43	11 S.		57.12	30 M.		28.90
26 S.		40.61	17 S.		56.97	Dec. 1 S.		29.01
27 S.		40.58	21 S.		56.96	8 M.		29.00
Oct. 7 S.		40.70	26 S.		56.97	1865 Sept. 12 M.		29.10
11 S.		40.56	Nov. 4 S.		56.99	13 M.		29.10
17 S.		40.59	14 S.		57.00	29 M.		29.06
21 S.		40.49	Dec. 8 M.		57.07	Oct. 3 S.		28.99
26 S.		40.57	9 S.		57.07	6 M.		29.04
Nov. 10 M.		40.61	Mean A.R. 1865.0		22 ^h 39 ^m 56 ^s .988	12 M.		29.06
11 M.		40.50				Mean A.R. 1865.0		22 ^h 47 ^m 29 ^s .011
30 M.		40.71	69 AQUARI.			34 CEPHEI H. T.H.S.		
Dec. 8 M.		40.65	1865 Sept. 27 M. 22 40		32.52	1860 Sept. 10 S.		+0.07
Mean A.R. 1865.0		22 ^h 36 ^m 40 ^s .592	29 M.		32.60	23 S.		+0.58
13 LACERTÆ.			Oct. 7 S.		32.61	Dec. 11 S.		+0.25
1865 Sept. 27 M. 22 38		4.41	9 M.		32.62	1863 Sept. 22 S.		+1.51
29 M.		4.55	11 M.		32.62	23 S.		+0.81
Oct. 7 S.		4.58	12 M.		32.50	28 S.		+1.60
			13 M.		32.39	29 S.		+0.32
			23 M.		32.68			
			24 S.		32.69			
			25 M.		32.59			
			Mean A.R. 1865.0		22 ^h 40 ^m 23 ^s .582			

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1863 Oct. 28 S.		+1.13 ^{s.}	β PISCUM.			128 HEIS PEGASI.		
Dec. 9 S.		-0.07	1862 Sept. 4 S.	22 ^h 57 ^m	0.38 ^{s.}	1865 Sept. 11 M.	23 ^h 7 ^m	57.29 ^{s.}
10 S.		+0.26	23 S.		0.46	13 M.		57.28
15 S.		+0.39	Oct. 30 S.		0.56	23 S.		57.33
21 S.		+1.10	Dec. 20 S.	(0.19)		25 M.		57.26
23 S.		-0.02	1863 Jan. 1 S.		0.46	27 M.		57.24
1864 Sept. 16 S.		+0.46	Sept. 30 S.		0.43	29 M.		57.23
30 S.		+0.99	Oct. 28 S.		0.44	Oct. 6 M.		57.28
Oct. 17 S.		+0.45	Dec. 15 S.		0.39	12 M.		57.16
Nov. 11 M.		-0.05	23 S.		0.55	13 M.		57.32
1865 Oct. 7 S.		+0.96	1864 Sept. 10 S.		0.54	23 M.		57.16
Mean		+0.597	26 S.		0.46	24 S.		57.24
T.H.S.		54.79	27 S.		0.38	Mean A.R. 1865.0		23 ^h 7 ^m 57 ^s .254
Mean A.R. 1865.0		22 ^h 47 ^m 55 ^s .387	30 S.		0.43			
			Oct. 7 S.		0.37			
			11 S.		0.39			
			17 S.		0.44			
			21 S.		0.47			
			25 S.		0.58			
			26 S.		0.42			
			Nov. 30 M.		0.45			
			Dec. 8 M.		0.41			
			Mean A.R. 1865.0		22 ^h 57 ^m 0 ^s .450			
			</					

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
Mean		+0.086	b AQUARI.			x PISCUM. N.A.		
N.A.		9.993						
Mean A.R. 1865.0			1862 Sept. 23 S.	h. m. s. 23 15 52.62		1862 Sept. 33 S.	s. +0.10	
23 ^h 10 ^m 10 ^s .079			Oct. 30 S.	52.72		Dec. 28 S.	+0.07	
			1863 Jan. 1 S.	52.70		1863 Sept. 29 S.	-0.04	
			Dec. 23 S.	52.68		30 S.	-0.02	
			26 S.	52.75		Dec. 23 S.	+0.09	
Pl. XXIII. 36 = γ SCULPTORIS.			1864 Sept. 16 S.	52.77		26 S.	+0.06	
			17 S.	52.65		1864 Sept. 16 S.	+0.11	
1865 Sept. 13 M.	h. m. s. 23 11 31.75		30 S.	52.73		17 S.	+0.10	
25 M.	31.51		Oct. 10 S.	52.73		26 S.	+0.02	
29 M.	31.77		21 S.	52.72		Oct. 10 S.	+0.10	
Oct. 6 M.	31.68		26 S.	52.70		21 S.	+0.06	
11 M.	31.67		Nov. 4 S.	52.77		25 S.	+0.10	
12 M.	31.72		10 M.	52.66		26 S.	+0.15	
23 M.	31.72		11 M.	52.77		Nov. 4 S.	+0.04	
24 S.	31.83		14 S.	52.67		19 M.	+0.12	
25 M.	31.76		29 S.	52.66		29 S.	+0.09	
Nov. 1 S.	31.67		Dec. 9 S.	52.65		Dec. 1 S.	+0.06	
Mean A.R. 1865.0			Mean A.R. 1865.0			Mean	+0.071	
23 ^h 11 ^m 31 ^s .708			23 ^h 15 ^m 52 ^s .703			N.A.	0.712	
o CEPHEI. A.E.			BR. 3109 = Pl. XXIII. 71.			Mean A.R. 1865.0		
1865 Sept. 13 M.	s. -0.12					23 ^h 20 ^m 0 ^s .783		
25 M.	-0.08							
29 M.	-0.32							
Oct. 6 M.	+0.25		1865 Sept. 13 M.	h. m. s. 23 17 9.80		128 HEIS AQUARI.		
12 M.	-0.25		25 M.	9.58				
13 M.	-0.29		29 M.	9.68		1865 Sept. 13 M.	h. m. s. 23 25 26.16	
16 M.	-0.10		Oct. 12 M.	9.72		29 M.	26.17	
23 M.	-0.21		13 M.	9.65		Oct. 6 M.	26.11	
24 S.	-0.19		16 M.	9.77		16 M.	26.16	
25 M.	-0.22		24 S.	9.69		17 S.	26.15	
Nov. 1 S.	-0.14		25 M.	9.62		23 M.	26.30	
Mean	-0.152		Nov. 11 M.	9.60		24 S.	26.08	
A.E. tables	5.689		Mean A.R. 1865.0			25 M.	26.26	
Mean A.R. 1865.0			23 ^h 17 ^m 9 ^s .679			Nov. 11 M.	26.15	
23 ^h 13 ^m 5 ^s .537						14 M.	26.15	
DM + 35°50'12.			PIAZZI XXIII. 82.			Mean A.R. 1865.0		
1865 Sept. 13 M.	h. m. s. 23 14 51.66		1865 Sept. 13 M.	h. m. s. 23 19 28.47		23 ^h 25 ^m 26 ^s .169		
29 M.	51.53		25 M.	28.39				
Oct. 6 M.	51.63		29 M.	28.22		39 CEPHEI H. T.H.S.		
11 M.	51.74		Oct. 13 M.	28.40				
16 M.	51.61		16 M.	28.37		1862 Sept. 23 S.	s. +1.16	
23 M.	51.60		23 M.	28.27		29 S.	+0.29	
24 S.	51.57		24 S.	28.34		Dec. 28 S.	+0.06	
25 M.	51.48		25 M.	28.35		29 S.	+0.23	
Nov. 1 S.	51.54		Nov. 11 M.	28.41		1863 Sept. 22 S.	+0.90	
11 M.	51.48		14 M.	28.29		24 S.	+0.53	
14 M.	51.46		Mean A.R. 1865.0			28 S.	+0.34	
Mean A.R. 1865.0			23 ^h 19 ^m 28 ^s .351			30 S.	+1.07	
23 ^h 14 ^m 51 ^s .573						Oct. 22 S.	+0.56	

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
1863 Nov. 2 S.		-0.94	1865 April 3 M.		+1.37	γ CEPHEI. N.A.		
3 S.		-0.06	13 M.		-0.24	1862 Sept. 23 S.		+0.24
4 S.		-0.08	17 M.		+0.64	29 S.		+0.11
23 S.		+0.25	24 M.		+0.62	Dec. 28 S.		+0.09
Dec. 21 S.		+0.83	25 M.		+0.23	29 S.		+0.07
23 S.		+0.32	May 3 M.		+0.54	1863 Jan. 2 S.		-0.03
26 S.		-0.17	15 M.		-0.32	5 S.		+0.28
1864 Sept. 16 S.		+0.02	24 S.		+0.42	17 S.		+0.66
30 S.		-0.32	Mean		+0.276	July 22 S.		+0.34
Oct. 10 S.		-0.19	T.H.S.		49.98	Sept. 30 S.		+0.22
11 S.		-0.80	Mean A.R. 1865.0			Nov. 3 S.		-0.16
Nov. 10 S.		+0.13	23 ^h 27 ^m 50 ^s .256			4 S.		+0.08
1 M.		+0.29				Dec. 21 S.		+0.08
14 S.		+0.61				26 S.		-0.10
Dec. 9 M.		+2.70				30 S.		-0.08
30 M.		+1.42				1864 Jan. 2 S.		+0.63
1865 Sept. 30 S.		+0.18	PIAZZI XXIII. 133.			Mean		+0.162
Oct. 3 S.		-0.86	1865 Sept. 29 M.		39.63	N.A.		49.862
6 M.		+1.81	Oct. 24 S.		39.49	Mean A.R. 1865.0		
12 M.		+1.51	Nov. 11 M.		39.60	23 ^h 33 ^m 50 ^s .024		
13 M.		+0.78	14 M.		39.52			
16 M.		-0.30	16 M.		39.53	γ CEPHEI. Sub Polo.		
17 S.		+0.69	17 M.		39.49	1863 Mar. 6 S.		+0.14
23 M.		-0.41	Dec. 21 M.		39.71	1864 Apr. 21 R.		+0.16
25 M.		-0.22	23 M.		39.67	22 S.		+0.13
Nov. 14 M.		+0.58	Mean A.R. 1865.0			1865 Apr. 13 M.		-0.05
16 M.		+0.40	23 ^h 30 ^m 39 ^s .580			14 S.		+0.31
17 M.		+0.78				17 M.		+0.08
Dec. 21 M.		+2.49	ι PISCUM. N.A.			24 M.		+0.14
23 M.		+2.27	1862 Sept. 29 S.		+0.15	25 M.		-0.04
Mean		+0.483	Nov. 3 S.		+0.13	May 10 S.		+0.10
T.H.S.		49.98	1863 Sept. 28 S.		+0.01	13 S.		+0.51
Mean A.R. 1865.0			1864 Jan. 9 S.		+0.04	Mean		+0.148
23 ^h 27 ^m 50 ^s .463			Sept. 16 S.		-0.02	N.A.		49.862
			17 S.		+0.17	Mean A.R. 1865.0		
39 CEPHEI H. Sub Polo.			26 S.		+0.12	23 ^h 33 ^m 50 ^s .010		
1862 Mar. 26 S.		+0.78	30 S.		-0.02			
April 7 S.		-0.87	Oct. 10 S.		+0.11	PIAZZI XXIII. 153.		
16 H.		+1.40	11 S.		-0.09	1865 Sept. 13 M.		9.55
26 H.		+0.47	Nov. 4 S.		0.00	25 M.		9.74
30 H.		-0.44	10 S.		+0.02	29 M.		9.60
May. 7 S.		-0.38	11 M.		+0.12	Oct. 13 M.		9.67
15 S.		-0.28	14 S.		-0.02	16 M.		9.67
Dec. 28 S.		+0.54	19 M.		-0.03	24 S.		9.60
1863 Mar. 9 S.		+0.88	Dec. 1 S.		-0.02	Nov. 11 M.		9.90
April 9 S.		+0.11	20 S.		+0.04	14 M.		9.72
1864 April 21 R.		+0.17	30 M.		+0.04	Dec. 21 M.		9.73
22 S.		+0.64	Mean		+0.042	23 M.		9.79
May. 6 S.		+0.95	N.A.		0.442	29 M.		9.77
18 R.		-0.77	Mean A.R. 1865.0			Mean A.R. 1865.0		
19 R.		+0.56	23 ^h 33 ^m 0 ^s .484			23 ^h 34 ^m 9 ^s .704		
1865 Mar. 25 S.		-0.39						

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
368 AQUARI B.			1864 Sept. 30 S. ^{s.} +0.23			GROOMBRIDGE 4163. A.E.		
1865 Sept. 13 M.	^{h.} 23 ^{m.} 35	^{s.} 28.05	Oct. 11 S.		^{s.} +0.23	1865 Sept. 13 M.		^{s.} -0.05
25 M.		28.16	17 S.		-0.08	25 M.		-0.24
29 M.		28.12	Nov. 4 S.		-0.12	29 M.		-0.25
Oct. 6 M.		28.19	10 S.		-0.04	Oct. 6 M.		+0.04
13 M.		28.12	11 M.		+0.12	13 M.		+0.01
16 M.		28.09	14 S.		+0.06	16 M.		-0.22
24 S.		28.13	19 M.		-0.15	Nov. 1 S.		0.00
Nov. 11 M.		28.25	29 S.		-0.03	11 M.		-0.60
14 M.		28.09	Dec. 1 S.		-0.02	Dec. 22 M.		+0.19
Dec. 21 M.		28.20	20 S.		+0.07	Mean		-0.124
Mean A.R. 1865.0			30 M.		+0.09	A.E. tables		17.849
23 ^h 35 ^m 28 ^s .140			Mean		+0.081	Mean A.R. 1865.0		
			N.A.		53.345	23 ^h 48 ^m 17 ^s .725		
			Mean A.R. 1865.0					
			23 ^h 41 ^m 53 ^s .426					
979 MAYER.			PI. XXIII. 203.			BRADLEY 3187.		
1865 Sept. 13 M.	^{h.} 23 ^{m.} 37	^{s.} 55.63	1865 Sept. 13 M.	^{h.} 23 ^{m.} 43	^{s.} 35.36	1865 Sept. 13 M.	^{h.} 23 ^{m.} 50	^{s.} 10.94
25 M.		55.57	25 M.		35.49	25 M.		11.44
29 M.		55.69	29 M.		35.40	29 M.		10.81
Oct. 6 M.		55.65	Oct. 6 M.		35.40	Oct. 6 M.		11.80
13 M.		55.66	13 M.		35.43	7 S.		11.41
16 M.		55.64	16 M.		35.42	13 M.		11.55
24 S.		55.78	24 S.		35.48	16 M.		10.95
1865 Nov. 11 M.		55.70	Nov. 11 M.		35.52	24 S.		11.43
Dec. 21 M.		55.78	Mean A.R. 1865.0			Nov. 1 S.		10.98
23 M.		55.57	23 ^h 43 ^m 35 ^s .438			11 M.		10.91
29 M.		55.79				Mean A.R. 1865.0		
Mean A.R. 1865.0						23 ^h 50 ^m 11 ^s .222		
23 ^h 37 ^m 55 ^s .678			BRADLEY 3181.			ω PISCUM. N.A.		
981 MAYER.			1864 Sept. 30 S.	^{h.} 23 ^{m.} 45	^{s.} 31.12	1862 Oct. 18 S.		^{s.} -0.16
1865 Sept. 3 M.	^{h.} 23 ^{m.} 40	^{s.} 18.61	Oct 17 S.		31.16	1863 Sept. 29 S.		+0.01
29 M.		18.80	Dec. 20 S.		30.92	1864 Jan. 9 S.		+0.01
Oct. 6 M.		18.81	Mean A.R. 1865.0			Oct. 11 S.		+0.03
13 M.		18.72	23 ^h 45 ^m 31 ^s .067			17 S.		-0.07
16 M.		18.78				Nov. 4 S.		+0.05
24 S.		18.75	BR. 3181. Sub Polo.			10 S.		-0.04
Nov. 11 M.		18.82	1863 Mar. 6 S.	^{h.} 23 ^{m.} 45	^{s.} 31.22	14 S.		-0.13
Dec. 21 M.		18.91	1864 April 21 R.		31.11	19 M.		+0.01
22 M.		18.83	22 S.		31.26	30 M.		+0.10
23 M.		18.76	30 R.		30.99	Dec. 5 M.		+0.01
Mean A.R. 1865.0			May 18 R.		31.35	8 M.		+0.03
23 ^h 40 ^m 18 ^s .779			19 R.		31.26	9 M.		-0.08
δ SCULPTORIS = PI. XXIII. 192			1865 April 8 S.		31.27	20 S.		-0.16
N.A.			17 M.		31.21	30 M.		+0.06
1863 Nov. 23 S.		^{s.} +0.12	18 S.		31.31	Mean		-0.022
Dec. 26 S.		+0.11	24 M.		30.79	N.A.		22.810
1864 Sept. 26 S.		+0.14	25 M.		31.21	Mean A.R. 1865.0		
			May 10 S.		31.65	23 ^h 52 ^m 22 ^s .788		
			13 S.		31.46			
			Mean A.R. 1865.0					
			23 ^h 45 ^m 31 ^s .238					

Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.	Date.	Observer.	A.R. 1865.0.
309 CEPHEI. B. T.H.S.			309 CEPHEI B. SUB POLO.			2 CETI. C. des T.		
1862 Sept. 23	S.	+0.81 ^{s.}	1862 Mar. 26	S.	+0.91 ^{s.}	1862 Sept. 23	S.	0.00 ^{s.}
29	S.	+0.43	April 7	S.	-0.08	Dec. 28	S.	+0.05
Oct. 18	S.	+0.09	30	H.	+0.31	1863 Nov. 2	S.	+0.03
Nov. 3	S.	+0.27	May 15	S.	+0.47	Dec. 26	S.	-0.02
Dec. 28	S.	+1.15	Dec. 28	S.	+0.66	1864 Jan. 6	S.	+0.04
1863 Sept. 22	S.	-0.69	1863 April 9	S.	-0.07	9	S.	+0.06
Nov. 4	S.	+0.71	1864 Mar. 24	S.	-0.46	Sept. 30	S.	0.00
23	S.	0.00	April 21	R.	+0.18	Oct. 11	S.	+0.10
Dec. 26	S.	-0.09	30	R.	-0.24	17	S.	-0.01
30	S.	+0.13	May 9	R.	-0.03	25	S.	+0.15
1864 Oct. 17	S.	+0.76	18	R.	+0.65	Nov. 4	S.	+0.09
1865 Oct. 7	S.	+1.15	22	R.	-0.25	10	S.	+0.03
24	S.	-0.75	1865 April 13	M.	-0.45	14	S.	+0.11
Mean		+0.305	Mean		+0.123	19	M.	-0.05
T.H.S.		15.04	T.H.S.		15.04	Dec. 5	M.	+0.03
Mean A.R. 1865.0			Mean A.R. 1865.0			8	M.	+0.04
23 ^h 53 ^m 15 ^s .345			23 ^h 53 ^m 15 ^s .163			Mean		+0.041
						C. des T.		49.30
						Mean A.R. 1865.0		
						23 ^h 56 ^m 49 ^s .341		

GENERAL CATALOGUE.

Number.	Star's Name.	A.R. 1865.0.	No. Obs.	Precession.	Secular Variation.	Proper Motion.	Declination.	$\Delta\alpha$.
		<i>h. m. s.</i>		<i>s.</i>	<i>s.</i>		<i>° ' "</i>	
1	Pi. ^{<i>h.</i>} 0.19	0 8 10.912	11	+ 3.0951	+0.0176		+26 32.1	
2	Pi. 0.38	11 35.598	11	3.1112	+0.0209		+30 46.1	
3	<i>i</i> Sculptoris	14 44.040	11	3.0219	-0.0136	+0.0030 S.	-29 43.7	
4	Pi. 0.56	16 13.431	11	3.0426	-0.0058		-16 41.6	
5	A. Oe. 326	18 22.466	7	3.2196	+0.0484		+54 14.8	
6	α Phœnicis	19 36.48	8	2.9642	-0.0226	+0.022 St.	-43 2.4	
7	12 Ceti	23 8.991	18	3.0598	+0.0010	+0.0011 A.	- 4 42.2	+0.006
8	Pi. 0.91	23 37.636	7	3.0781	-0.0096		-24 32.1	
9	Pi. 0.100	25 17.155	9	3.0203	-0.0064	+0.0045 S.	-18 58.0	-0.004
10	Pi. 0.109	27 0.262	10	2.9789	-0.0127		-30 18.2	
11	Pi. 0.122	29 12.033	9	3.1556	+0.0192		+26 30.6	
12	ζ Cassiopeiæ	29 27.907	17	3.2915	+0.0474	+0.007 S.	+53 9.2	+0.004
13	Bradley 48	29 42.95	22	4.2630	+0.3657	-0.050 S.	+81 44.9	-0.035
14	Pi. 0.131	30 33.578	10	3.0783	+0.0050	+0.008 S.	+ 2 23.6	-0.007
15	α Cassiopeiæ	32 51.800	33	3.3520	+0.0554	+0.0082 N.	+55 47.8	+0.001
16	Pi. 0.142	32 55.186	10	3.0306	-0.0021		-11 53.1	
17	Pi. 0.152	35 25.532	4	3.0251	-0.0023	+0.004 S.	-12 32.6	
18	β Ceti	36 48.756	15	2.9984	-0.0054	+0.0172 N.	-18 43.7	+0.004
19	A. Oe. 681	37 6.436	5	3.4726	+0.0732		+61 47.3	
20	Pi. 0.174	38 56.770	7	3.0010	-0.0044		-17 9.7	
21	η Cassiopeiæ	40 57.045	15	3.4382	+0.0604	+0.140 S.	+57 5.9	
22	δ Piscium	41 40.879	24	3.1000	+0.0080	+0.0054 A.	+ 6 51.0	+0.003
23	Bradley 74	42 27.937	26	5.0692	+0.5514	+0.040 S.	+82 58.4	+0.035
24	A. Oe. 799	43 13.642	8	3.5244	+0.0730		+61 4.2	
25	Pi. 0.210	44 31.711	8	3.0248	-0.0003		-10 8.4	
26	γ Cassiopeiæ	48 34.924	16	3.5578	+0.0714	+0.0057 M.	+59 59.1	
27	μ Andromedæ	49 16.171	18	3.2918	+0.0306	+0.012 S.	+37 46.0	+0.005
28	Pi. 0.242	50 50.751	9	3.2636	+0.0262		+33 13.5	
29	43 Cephei H.	50 51.549	71	6.8357	+1.2893	+0.070 S.	+85 31.9	
30	α Sculptoris	52 5.994	8	2.8963	-0.0099		-30 5.3	
31	Pi. 0.258	54 26.354	9	3.2147	+0.0195	+0.007 S.	+24 33.9	-0.006
32	ϵ Piscium	55 56.379	18	3.1115	+0.0089	-0.0046 N.	+ 7 9.8	+0.001
33	σ Sculptoris	55 59.522	9	2.8666	-0.0107		-32 16.8	
34	A. Oe. 1092	58 49.616	9	+ 3.5782	+0.0624		+56 13.0	

Number.	Star's Name.	A.R. 1865.0.			No. Obs.	Precession.	Secular Variation.	Proper Motion.	Declination.	$\Delta\alpha$.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>s.</i>	<i>s.</i>	<i>s.</i>	<i>°</i> <i>'</i>	<i>s.</i>
35	44 Cephei H.	1	0	43.984	28	+ 4.8645	+ 0.3245	+0.0301 A.	+78 57.2	+0.038
36	β Andromedæ		2	10.893	27	3.3209	+ 0.0287	+0.0182 M.	+34 54.2	+0.004
37	Polaris		9	38.917	206	19.3224	+13.40	+0.119	+88 35.4	+0.008
38	ψ Cassiopeiæ		16	26.215	30	4.1235	+ 0.1199	+0.0111 A.	+67 25.4	+0.008
39	θ Ceti		17	16.623	14	3.0018	+ 0.0020	-0.0052 N.	- 8 52.8	+0.001
40	η Piscium		24	15.838	13	3.1965	+ 0.0143	+0.0029 N.	+14 38.9	+0.003
41	ν Persei		29	43.233	21	3.6363	+ 0.0484	+0.0059 M.	+47 56.6	+0.004
42	ν Piscium		34	24.559	13	3.1159	+ 0.0092	+0.000 A.	+ 4 48.2	+0.004
43	τ Ceti		37	47.846	19	2.9054	- 0.0002	-0.1176 M.	-16 39.0	-0.085
44	χ Ceti		42	57.347	23	2.9543	+ 0.0022	+0.0083 M.	-11 21.3	-0.006
45	ω Cassiopeiæ		45	33.813	6	4.5432	+ 0.1363		+68 1.2	
46	β Arietis		47	11.236	12	3.2920	+ 0.0184	+0.0071 N.	+20 8.8	-0.003
47	λ Cassiopeiæ		50	55.640	5	4.8035	+ 0.1632		+70 15.0	
48	50 Cassiopeiæ		51	58.178	25	4.9755	+ 0.1858	-0.0122 Ast.	+71 45.9	-0.007
49	α Piscium		55	3.82	13	3.0946	+ 0.0085	+0.0053 M.	+ 2 6.7	+0.002
50	γ Andromedæ		55	37.483	20	3.6463	+ 0.0394	+0.0012 M.	+41 40.8	+0.001
51	Gr. 454	2	0	59.864	5	5.3286	+ 0.2202		+73 23.4	
52	67 Ceti		10	15.143	19	2.9820	+ 0.0051	+0.0055 A.	- 7 2.7	0.000
53	σ Ceti		12	31.807	18	3.0250	+ 0.0065	+0.0005 A.	- 3 35.5	-0.008
54	ι Cassiopeiæ		17	59.060	28	4.8368	+ 0.1307	-0.0096 M.	+66 47.6	-0.009
55	ξ^2 Ceti		20	59.081	14	3.1773	+ 0.0118	+0.0025 M.	+ 7 51.2	+0.001
56	36. Cassiop. H.		25	15.989	24	5.5406	+ 0.2028	-0.0125 M.	+72 13.5	
57	Gr. 527		28	33.564	30	8.0941	+ 0.6386	+0.022 S.	+80 52.3	
58	ε Ceti		33	2.160	22	2.8882	+ 0.0039	+0.0101 M.	-12 26.8	+0.003
59	γ Ceti		36	18.509	20	3.1101	+ 0.0095	-0.0091 N.	+ 2 39.9	0.000
60	41 Arietis		42	2.658	18	3.5077	+ 0.0230	+0.0037 M.	+26 42.1	-0.001
61	η Eridani		49	50.035	20	2.9209	+ 0.0053	+0.0054 M.	- 9 26.2	+0.002
62	Gr. 580		51	1.171	8	8.7639	+ 0.6533		+80 56.5	
63	ε Arietis		51	29.857	14	3.4164	+ 0.0186		+20 47.9	
64	β Persei		59	23.728	19	3.8743	+ 0.0356		+40 26.0	0.000
65	48 Cephei H.	3	3	19.027	7	7.3028	+ 0.3514	+0.0201 A.	+77 14.0	-0.010
66	δ Arietis		3	54.878	17	3.4060	+ 0.0172	+0.0123 A.	+19 12.8	-0.003
67	12 Eridani		6	20.335	16	2.5210	+ 0.0015	+0.0248 A.	-29 31.2	+0.005
68	ζ Eridani		9	16.709	21	2.9096	+ 0.0056		- 9 19.4	
69	α Persei		14	41.876	22	4.2413	+ 0.0484	+0.0043 N.	+49 22.7	0.000
70	σ Tauri		17	33.082	20	3.2235	+ 0.0116	-0.0037 M.	+ 8 33.1	-0.002
71	323 Cephei B.		22	35.609	31	18.6920	+ 3.1962	+0.167 S.	+86 12.8	
72	ε Eridani		26	34.349	22	2.8877	+ 0.0056	-0.0655 M.	- 9 55.0	-0.016
73	6 Camelop. H.		30	28.174	27	5.1357	+ 0.0899	-0.0025 A.	+62 46.3	-0.002
74	δ Persei		33	19.491	22	4.2351	+ 0.0417	+0.0047 N.	+47 21.2	-0.002
75	δ Eridani		36	47.011	23	2.8754	+ 0.0056	-0.0066 M.	-10 13.4	-0.002
76	η Tauri		39	27.875	13	3.5505	+ 0.0178	+0.0021 N.	+23 41.1	-0.001
77	ζ Persei		45	39.112	21	3.7528	+ 0.0223	+0.0020 N.	+31 28.8	+0.001
78	49 Cephei H.		47	37.062	13	9.6364	+ 0.5090	0.000 S.	+80 19.2	
79	γ Eridani		51	43.962	19	+ 2.7906	+ 0.0048	+0.0067 N.	-13 53.7	+0.001

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		<i>h. m. s.</i>		<i>s.</i>	<i>s.</i>	<i>s.</i>	<i>° ' "</i>	<i>s.</i>
80	Gr. 750	3 55 10.751	35	+16.6698	+ 1.8145	+0.0084	+85 11.6	
81	Gr. 766	57 14.600	10	13.1109	+ 1.0062		+83 28.1	
82	Gr. 774	4 0 36.826	10	12.5213	+ 0.8696	-0.010 S.	+83 0.3	+0.005
83	Gr. 779	3 42.856	25	10.0486	+ 0.4845		+80 29.6	
84	α^1 Eridani	5 16.741	15	2.9229	+ 0.0060	+0.0020 A.	- 7 11.5	-0.001
85	γ Tauri	12 6.836	22	3.3968	+ 0.0116	+0.0094 N.	+15 17.9	-0.004
86	δ Tauri	15 9.172	21	3.4427	+ 0.0122	+0.0067 M.	+17 13.4	+0.002
87	64 Tauri	16 19.026	21	3.4415	+ 0.0120	+0.0081 M.	+17 7.7	+0.003
88	ϵ Tauri	20 44.224	16	3.4858	+ 0.0122	+0.0087 N.	+18 52.7	-0.003
89	53 Eridani	32 0.011	21	2.7487	+ 0.0044	-0.0038 M.	-14 34.2	-0.001
90	50 Cephei H.	35 13.184	25	10.9052	+ 0.4167		+80 57.6	
91	μ Eridani	38 45.339	23	2.9941	+ 0.0057	+0.0056 M.	- 3 30.3	+0.001
92	9 Camelop.	40 39.047	17	5.9098	+ 0.0700		+66 6.5	
93	ι Aurigæ	48 12.405	20	3.8952	+ 0.0145	+0.0019 N.	+32 56.9	-0.004
94	10 Camelop.	51 25.200	12	5.3052	+ 0.0420		+60 14.4	+0.003
95	ι Tauri	55 1.775	20	3.5738	+ 0.0096	+0.0057 A.	+21 23.6	+0.000
96	RC. 1377.	58 19.808	6	19.5956	+ 1.1945		+85 32.4	
97	ϵ Leporis	59 45.003	20	2.5347	+ 0.0035	+0.0041 M.	-22 33.3	-0.004
98	τ Orionis	5 11 3.287	22	2.9110	+ 0.0041	+0.0030 M.	- 6 58.6	+0.002
99	64 Camelop. B	19 3.942	22	18.4708	+ 0.6817	+0.0246 S.	+85 7.0	
100	74 Camelop. B.	21 41.629	13	7.9726	+ 0.0792		+74 56.8	
101	β Leporis	22 27.848	19	2.5680	+ 0.0032	+0.0025 M.	-20 52.2	0.000
102	δ Orionis	25 6.753	24	3.0616	+ 0.0040	+0.0008 N.	- 0 24.1	0.000
103	α Leporis	26 46.719	21	2.6431	+ 0.0031	+0.0010 N.	-17 55.3	0.000
104	ϵ Orionis	29 21.932	24	3.0411	+ 0.0037	+0.0005 N.	- 1 17.5	0.000
105	α Columbæ	34 45.796	20	2.1696	+ 0.0030	+0.0024 N.	-34 8.9	-0.006
106	κ Orionis	41 21.425	22	2.8427	+ 0.0028	+0.0016 M.	- 9 43.2	0.000
107	θ Aurigæ	50 31.020	21	4.0848	+ 0.0035	+0.0059 M.	+37 12.0	+0.002
108	1 Geminorum	55 54.938	24	3.6457	+ 0.0023	-0.0009 M.	+23 16.0	0.000
109	ν Orionis	59 51.929	19	3.4237	+ 0.0018	+0.0033 A.	+14 46.9	-0.003
110	η Geminorum	6 6 43.762	20	3.6256	+ 0.0008	-0.0033 M.	+22 32.6	-0.002
111	κ Columbæ	11 45.081	15	2.1326	+ 0.0023		-35 5.9	
112	μ Geminorum	14 47.632	20	3.6257	- 0.0002	+0.0059 N.	+22 34.8	-0.007
113	β Canis Maj.	16 45.406	24	2.6405	+ 0.0018	+0.0031 M.	-17 53.5	+0.006
114	ν Geminorum	20 56.871	24	3.5632	- 0.0007		+20 17.6	
115	23 Camelop. H.	23 8.359	32	10.3905	- 0.0983	-0.0210 A.	+79 42.1	-0.021
116	γ Geminorum	29 54.784	24	3.4638	- 0.0013	+0.0039 N.	+16 30.7	-0.003
117	ϵ Geminorum	35 37.559	19	3.6941	- 0.0034	+0.0016 M.	+25 15.7	0.000
118	(51 Cephei H.	36 11.926)	59	30.4985	- 1.8535	-0.0274 S.	+87 14.6	
119	24 Camelop. H.	40 19.885	10	8.8369	- 0.1119	+0.0247 A.	+77 8.5	-0.015
120	κ Canis Maj.	44 48.010	20	2.2401	+ 0.0002		-32 21.3	
121	θ Canis Maj.	47 55.111	19	2.7960	+ 0.0006	-0.0067 M.	-11 52.3	-0.005
122	ϵ Canis Maj.	53 19.288	21	2.3560	+ 0.0015	+0.0014 N.	-28 47.4	-0.005
123	ζ Geminorum	56 6.089	20	3.5627	- 0.0049	+0.0010 M.	+20 45.9	+0.001
124	γ Canis Maj.	57 39.113	23	+ 2.7134	+ 0.0007	+0.0039 M.	-15 26.2	-0.005

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		<i>h</i>	<i>m.</i>	<i>s.</i>		<i>s.</i>	<i>s.</i>	<i>s.</i>	<i>°</i> <i>'</i>	<i>s.</i>
125	25 Camelop. H.	7	2	28.993	26	+13.0670	— 0.4750	+0.013 S.	+82 39.6	
126	δ Canis Maj.		2	54.224	15	2.4326	+ 0.0013	0.0000 N.	—26 10.9	0.000
127	λ Geminorum		10	20.048	21	3.4552	— 0.0053	—0.0019 M.	+16 46.9	—0.001
128	δ Geminorum		12	3.543	20	3.5905	— 0.0071	—0.0008 N.	+22 13.7	—0.008
129	4 Ursæ Min. B.		16	36.100	33	76.4246	—27.7835	—0.009 S.	+89 0.8	
130	Gr. 1308		16	48.204	18	6.3151	— 0.0821	0.0000 Ast.	+68 44.2	
131	η Canis Maj.		18	45.411	17	2.3720	+ 0.0013	—0.0013 M.	—29 2.5	—0.001
132	28 Camelop. H.		33	48.681	10	10.4758	— 0.4240	—0.2027 A.	+80 35.7	+0.125
133	Pi. VII. 187.		43	24.759	10	9.7848	— 0.3972		+79 50.4	
134	ξ Argus		43	37.024	13	2.5223	+ 0.0010	+0.0011 M.	—24 31.4	—0.010
135	156 Camelop. B.		44	10.665	29	15.4016	— 1.2243	+0.0113 S.	+84 26.2	
136	χ Geminorum		55	13.423	17	3.6983	— 0.0146	0.000 A.	+28 10.2	—0.008
137	ζ Argus		58	50.434	5	2.1095	+ 0.0015		—39 37.5	
138	ι Navis	8	1	47.789	10	2.5598	+ 0.0014	—0.0055 N.	—23 55.0	0.000
139	β Cancri		9	11.569	20	3.2620	— 0.0069	—0.0023 M.	+ 9 36.0	—0.013
140	Gr. 1418		15	34.156	23	17.2376	— 2.1843	—0.1200 S.	+85 31.3	—0.096
141	σ Ursæ Maj.		19	1.375	22	5.0660	— 0.0762	—0.0155 M.	+61 9.9	—0.020
142	A Ursæ Maj.		22	28.834	27	5.4668	— 0.1034	—0.0042 M.	+65 36.1	—0.005
143	η Cancri		24	53.911	18	3.4827	— 0.0129	—0.0022 A.	+20 53.8	—0.007
144	δ Cancri		37	0.611	15	3.4203	— 0.0123	+0.0005 M.	+18 38.9	0.000
145	ε Hydræ		39	37.533	12	3.1952	— 0.0069	—0.0116 N.	+ 6 54.7	—0.009
146	6 Ursæ Maj.		45	0.840	21	5.2378	— 0.1078		+65 7.0	
147	R. C. 2218		46	36.981	10	13.8637	— 1.7325		+84 42.9	
148	ι Ursæ Maj.		49	57.031	23	4.1879	— 0.0444	—0.0437 N.	+48 34.1	—0.010
149	σ^2 Ursæ Maj.		58	28.265	26	5.3888	— 0.1338	—0.0043 A.	+67 40.7	—0.005
150	α Cancri	9	0	26.020	23	3.2579	— 0.0094	+0.0003 N.	+11 12.6	+0.001
151	λ Argus		3	1.992	21	2.2045	+ 0.0046	—0.005 St.	—42 53.3	—0.005
152	θ Hydræ		7	20.378	22	3.1169	— 0.0056	+0.0100 M.	+ 2 52.9	+0.007
153	83 Cancri		11	26.619	16	3.3671	— 0.0133	—0.0080 A.	+18 16.5	—0.007
154	1 Draconis H.		17	34.496	38	9.1988	— 0.8042	+0.0067 S.	+81 55.1	
155	θ Ursæ Maj.		23	48.684	17	4.1602	— 0.0560	—0.1057 N.	+52 17.4	—0.012
156	Gr. 1564		30	38.281	22	5.2807	— 0.1631	—0.0164 A.	+69 50.9	—0.009
157	σ Leonis		33	56.620	21	3.2184	— 0.0091	—0.0098 M.	+10 30.3	—0.012
158	ε Leonis		38	10.994	20	3.4226	— 0.0178	—0.0031 N.	+24 23.7	—0.010
159	ν Ursæ Maj.		41	21.877	20	4.3705	— 0.0819	—0.0359 M.	+59 40.3	—0.040
160	μ Leonis		45	4.800	20	3.4433	— 0.0196	—0.0164 N.	+26 38.5	—0.005
161	π Leonis		53	4.684	16	3.1784	— 0.0079	—0.0024 A.	+ 8 41.4	—0.009
162	λ Hydræ	10	4	0.460	22	2.9368	+ 0.0016	—0.0118 M.	—11 41.3	—0.013
163	λ Ursæ Maj.		8	56.644	22	3.6637	— 0.0383	—0.0166 M.	+43 35.2	—0.017
164	γ Leonis pr.		12	31.549	18	3.2971	— 0.0150	+0.0214 N.	+20 31.4	—0.006
165	30 Camelop. H.		14	19.364	26	8.0904	— 0.9792	—0.0344 S.	+83 14.6	
166	μ Hydræ		19	33.789	22	2.9067	+ 0.0041	—0.0077 M.	—16 8.9	—0.008
167	ρ Leonis		25	42.073	16	3.1652	— 0.0078	+0.0010 N.	+10 0.0	—0.009
168	193 Camelop. B.		29	59.162	20	6.3494	— 0.5584	+0.020 S.	+81 7.8	+0.005
169	ι Leonis		42	9.577	14	+ 3.1596	— 0.0079	+0.0010 N.	+11 15.5	—0.006

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170	β Ursæ Maj.	10 53 40.445	25	+ 3.6607	— 0.0627	+0.0103 M.	+57 6.3	+0.020
171	α Ursæ Maj.	55 22.251	37	3.7849	— 0.0819	—0.0175 N.	+62 28.7	0.000
172	χ Leonis	58 3.152	19	3.1215	— 0.0055	—0.0240 A.	+ 8 3.9	—0.009
173	ψ Ursæ Maj.	11 2 3.744	19	3.4082	— 0.0366	—0.0080 M.	+45 13.8	—0.009
174	δ Leonis	6 55.513	14	3.1903	— 0.0120	+0.0113 N.	+21 15.8	—0.009
175	δ Crateris	12 35.590	20	3.0022	+ 0.0065	—0.0075 N.	—14 2.9	—0.008
176	γ Crateris	18 8.454	22	2.9969	+ 0.0083	—0.0070 R.	—16 56.6	—0.008
177	τ Leonis	20 59.670	20	3.0852	— 0.0022	+0.0015 N.	+ 3 36.0	0.000
178	202 Camelo. B.	22 11.794	31	4.6076	— 0.4133	—0.0457 S.	+81 52.2	
179	λ Draconis	23 21.197	10	3.6582	— 0.1127	—0.0098 M.	+70 4.5	0.000
180	ν Leonis	30 2.214	15	3.0707	+ 0.0005	+0.0006 N.	— 0 4.7	—0.009
181	χ Ursæ Maj.	38 54.623	21	3.2099	— 0.0357	—0.0101 M.	+48 31.7	—0.011
182	γ Ursæ Maj.	46 42.968	24	3.1792	— 0.0432	+0.0132 N.	+54 26.7	0.000
183	Groom. 1845	53 11.005	10	3.3404	— 0.2362		+81 36.4	
184	π Virginis	53 57.304	22	3.0755	— 0.0022	—0.0009 M.	+ 7 22.0	0.000
185	Groom. 1850	57 53.475	9	3.2629	— 0.5226	—0.060 S.	+86 20.1	+0.053
186	α Corvi	12 1 27.400	4	3.0747	+ 0.0154	+0.0056 R.	—23 58.5	—0.002
187	ε Corvi	3 11.208	21	3.0784	+ 0.0143	—0.0016 M.	—21 52.1	—0.006
188	207 Camelo. B.	4 51.966	15	2.8564	— 0.1898		+82 27.7	
189	γ Corvi	8 52.028	20	3.0865	+ 0.0116	—0.0093 M.	—16 47.5	—0.011
190	2 H. Canum	9 42.688	5	3.0330	— 0.0169		+33 49.0	
191	5 Ursæ Min. B.	12 52.584	37	1.5434	+ 0.0005	+0.301 S.	+87 11.2	
192	η Virginis	13 0.024	20	+ 3.0708	+ 0.0028	—0.0023 N.	+ 0 5.0	—0.006
193	6 Ursæ Min. B.	14 19.796	31	— 0.0126	+ 1.1134	—0.090 S.	+88 26.9	
194	12 Comæ Ber.	15 43.016	7	+ 3.0250	— 0.0115	—0.0009 M.	+26 35.7	0.000
195	13 Comæ Ber.	17 32.035	6	3.0192	— 0.0115	—0.0013 M.	+26 50.8	0.000
196	14 Comæ Ber.	19 38.850	6	3.0100	— 0.0120	+0.0007 M.	+28 1.0	0.000
197	15 Comæ Ber.	20 12.357	21	3.0056	— 0.0126	—0.0062 R.	+29 1.1	—0.006
198	16 Comæ Ber.	20 14.121	3	3.0093	— 0.0117	+0.0053 M.	+27 34.4	—0.002
199	17 Comæ Ber.	22 10.066	7	3.0061	— 0.0109	+0.0007 M.	+26 39.6	0.000
200	δ Corvi	22 52.988	22	3.1085	+ 0.0119	—0.0091 M.	—15 45.8	—0.013
201	4 Draconis	24 10.737	6	2.6852	— 0.0572		+69 57.0	
202	η Corvi	25 7.032	22	3.1113	+ 0.0119	—0.029 M.	—15 26.9	—0.043
203	5 H. Canum	26 59.726	7	2.9649	— 0.0150		+33 59.7	
204	β Corvi	27 18.078	24	3.1372	+ 0.0163	+0.0005 N.	—22 39.0	—0.002
205	24 Comæ Ber.	28 21.441	6	3.0137	— 0.0062	+0.0027 A.	+19 7.2	—0.001
206	γ Virginis med.	34 49.278	19	3.0734	+ 0.0044	—0.0357 M.	— 0 42.5	—0.005
207	ρ Virginis	35 3.161	5	3.0314	— 0.0016	+0.008 S.	+10 58.8	—0.003
208	60 Canum B.	38 46.848	6	2.8363	— 0.0217		+46 10.7	
209	30 Comæ Ber.	42 42.706	9	2.9376	— 0.0099	—0.0069 M.	+28 17.3	+0.003
210	31 Comæ Ber.	45 7.269	9	2.9302	— 0.0097		+28 16.6	
211	ε Ursæ Maj.	48 4.824	11	2.6472	— 0.0271	+0.0163 M.	+56 41.6	+0.007
212	32 Camelop. H.	48 10.064	16	0.3503	+ 0.2259		+84 8.8	—0.008
213	δ Virginis	48 48.267	21	3.0505	+ 0.0027	—0.0307 M.	+ 4 7.9	—0.005
214	12 Canum Ven.	49 42.529	21	+ 2.8376	— 0.0151	—0.0185 N.	+39 2.9	

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215	ε Virginis	12 55 27.415	28	+ 3.0047	— 0.0006	—0.0173 M.	+11 41.1	—0.005
216	14 Canum Ven.	59 25.564	5	2.8171	— 0.0124		+36 31.3	
217	θ Virginis	13 2 57.774	21	3.1015	+ 0.0080	—0.0023 N.	— 4 49.0	—0.004
218	43 Comæ Ber.	5 34.291	14	2.8655	— 0.0078	—0.0576 M.	+28 33.8	—0.014
219	ι Centauri	13 1.130	11	+ 3.3752	+ 0.0305		—36 0.0	
220	214 Camelo. B.	20 11.745	75	— 2.7017	+ 0.9840	—0.0734 S.	+85 27.6	
221	69 Ursæ Maj.H.	23 29.513	3	+ 2.2241	— 0.0154	—0.0083 A.	+60 38.6	+0.003
222	h Virginis	25 51.674	6	3.1525	+ 0.0113		— 9 28.1	
223	78 ϕ Virginis	27 17.562	6	3.0331	+ 0.0045		+ 4 21.3	
224	ζ Virginis	27 49.012	20	3.0701	+ 0.0066	—0.0185 N.	+ 0 5.7	
225	17 H. Canum	28 46.044	7	2.6782	— 0.0091	+0.0054 A.	+37 52.5	—0.002
226	25 Canum	31 27.674	10	2.6797	— 0.0085		+36 58.9	
227	1 H. Bootis	32 55.291	7	2.9643	+ 0.0017		+11 26.0	
228	i Centauri	38 1.571	7	3.4223	+ 0.0279	—0.0348 M.	—32 21.6	+0.015
229	Groom. 2043	40 28.174	7	2.6084	— 0.0081		+39 10.8	
230	21 H. Can. Ven.	41 10.376	7	2.6047	— 0.0080		+39 13.2	
231	η Ursæ Majoris	42 13.080	21	+ 2.3839	— 0.0102	—0.0102 N.	+49 59.3	0.000
232	219 Camelo. B.	46 20.874	23	— 2.1236	+ 0.5622	+0.040 S.	+83 25.8	+0.032
233	i Draconis	47 29.342	6	+ 1.7516	— 0.0002	+0.0060 A.	+65 23.5	—0.003
234	η Bootis	48 15.409	16	2.8606	— 0.0005	—0.0037 N.	+19 4.5	—0.006
235	τ Virginis	54 46.704	22	3.0463	+ 0.0066	+0.0019 M.	+ 2 11.9	—0.004
236	θ Centauri	58 44.929	17	3.5468	+ 0.0318	—0.0428 R.	—35 42.3	—0.010
237	α Draconis	14 0 44.100	25	+ 1.6280	+ 0.0051	—0.0054 M.	+65 1.3	+0.017
238	Groom. 2099	3 47.273	24	— 7.8685	+ 2.5087	—0.027 S.	+86 24.2	
239	42 H. Virginis	5 25.947	9	+ 3.0339	+ 0.0065		+ 3 2.8	
240	λ Virginis	11 48.603	21	3.2354	+ 0.0142		—12 44.9	
241	A Bootis	12 17.390	14	2.5383	— 0.0037		+36 8.0	
242	18 H. Bootis	16 44.478	12	2.9511	+ 0.0045		+ 9 3.8	
243	f Bootis	20 10.665	11	2.7940	+ 0.0011	—0.0022 M.	+19 50.1	+0.001
244	θ Bootis	20 36.070	27	2.0688	— 0.0023	—0.0242 N.	+52 28.6	
245	q Bootis	26 0.679	22	2.5937	— 0.0014	—0.0055 M.	+30 57.9	—0.001
246	γ Bootis	26 38.527	12	2.4268	— 0.0026	—0.008 S.	+38 54.0	+0.004
247	σ Bootis	28 48.143	23	2.5979	— 0.0011	+0.0175 M.	+30 20.0	0.000
248	π Bootis pr.	34 23.022	14	2.8160	+ 0.0027	+0.0020 M.	+16 59.9	—0.001
249	μ Virginis	35 56.952	33	3.1455	+ 0.0106	+0.0093 M.	— 5 4.2	+0.009
250	ε Bootis	39 5.474	27	2.6229	+ 0.0002	—0.0016 N.	+27 38.7	—0.001
251	109 Virginis	39 25.575	11	3.0340	+ 0.0075	—0.0055 M.	+ 2 27.8	+0.003
252	ξ Bootis	45 9.851	11	2.7557	+ 0.0023	+0.0114 M.	+19 39.8	—0.005
253	Gr. 2164	48 0.940	28	+ 1.5311	+ 0.0094	—0.0157 A.	+59 50.6	—0.009
254	β Ursæ Minor.	51 8.014	38	— 0.2499	+ 0.1044	—0.0054 W.	+74 42.5	
255	40 Bootis	54 26.396	9	+ 2.3026	— 0.0001	—0.0039 M.	+39 48.1	+0.002
256	γ Scorpïi	56 10.535	22	3.4993	+ 0.0210	—0.0035 M.	—24 44.9	—0.003
257	ω Bootis	56 11.760	9	2.6267	+ 0.0015	+0.0015 M.	+25 32.6	—0.001
258	ψ Bootis	58 39.682	24	+ 2.5822	+ 0.0013	—0.0120 A.	+27 28.5	—0.003
259	223 Camelo. B.	59 39.744	12	— 4.6881	+ 0.7168	+0.100 S.	+83 3.8	—0.020

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260	<i>c</i> Bootis	15	1	22.340	25	+ 2.6194	+ 0.0017	+0.0137 R.	+25 23.8	+0.009
261	β Libræ	15	9	44.780	35	3.2248	+ 0.0119	-0.0058 N.	- 8 52.9	-0.002
262	δ Bootis	15	10	3.604	7	2.4104	+ 0.0012	+0.0105 M.	+33 49.2	-0.005
263	5 Serpentis	15	12	25.437	8	3.0313	+ 0.0078	+0.025 S.	+ 2 16.8	-0.013
264	η Coronæ	15	17	37.696	11	2.4663	+ 0.0018	+0.0114 M.	+30 46.6	-0.006
265	μ Bootis	15	19	23.470	23	+ 2.2768	+ 0.0016	-0.0109 N.	+37 51.1	-0.006
266	γ Ursæ Minoris	15	20	58.002	17	- 0.1522	+ 0.0758		+72 18.9	
267	57 Urs. Min.B.	15	22	4.772	30	-23.1403	+ 7.7691	+0.031 S.	+87 44.7	
268	37 Libræ	15	26	48.199	28	+ 3.2483	+ 0.0118	+0.0211 M.	- 9 35.9	+0.017
269	θ Coronæ	15	27	29.209	10	2.4184	+ 0.0021		+31 49.0	
270	μ Coronæ	15	30	17.711	10	2.1970	+ 0.0023	+0.0018 M.	+39 27.6	-0.001
271	φ Bootis	15	32	58.816	14	+ 2.1465	+ 0.0026	+0.0067 A.	+40 47.7	-0.004
272	θ Ursæ Minoris	15	35	29.180	12	- 1.9224	+ 0.1940	-0.012 S.	+77 47.9	+0.006
273	ι Serpentis	15	35	31.998	27	+ 2.6755	+ 0.0037	-0.0049 M.	+20 6.4	-0.005
274	λ Serpentis	15	39	53.620	29	2.9214	+ 0.0061	-0.0118 M.	+ 7 46.7	-0.013
275	β Serpentis	15	39	57.525	17	2.7601	+ 0.0044	+0.0068 M.	+15 50.8	-0.004
276	λ [χ] Lupi	15	42	23.385	11	3.7931	+ 0.0240		-33 12.8	
277	μ Serpentis	15	42	34.668	27	3.1290	+ 0.0090	-0.0040 M.	- 3 0.9	-0.004
278	δ Coronæ	15	43	56.048	15	2.5188	+ 0.0030	-0.0064 M.	+26 29.0	+0.003
279	ε Serpentis	15	44	5.359	26	2.9761	+ 0.0068	+0.0094 N.	+ 4 53.2	-0.012
280	λ Libræ	15	45	30.227	12	+ 3.4708	+ 0.0153	+0.0010 M.	-19 45.7	-0.001
281	ζ Ursæ Minoris	15	48	56.927	36	- 2.3141	+ 0.2046	+0.012 Wg.	+78 12.5	-0.001
282	γ Serpentis	15	50	13.170	23	+ 2.7452	+ 0.0045	+0.0229 M.	+16 6.3	+0.016
283	π Scorpii	15	50	41.487	15	3.6151	+ 0.0181		-25 43.4	
284	ε Coronæ	15	51	59.977	15	2.4865	+ 0.0031	-0.0040 N.	+27 16.2	+0.001
285	δ Scorpii	15	52	21.363	22	3.5348	+ 0.0161	0.000 N.	-22 04.1	0.000
286	β Scorpii	15	57	35.515	18	+ 3.4769	+ 0.0143	+0.0005 N.	-19 26.0	0.000
287	62 Ursæ Min.B.	15	57	40.680	30	- 6.8010	+ 0.7200	+0.015 S.	+83 21.0	
288	θ Draconis	15	59	21.855	17	+ 1.1527	+ 0.0148	-0.038 Wg.	+ 8 55.6	-0.025
289	ν Scorpii	16	4	9.217	12	3.4761	+ 0.0137	+0.0015 M.	-19 6.4	-0.001
290	87 Draconis B.	16	5	58.013	12	0.1388	+ 0.0413	-0.010 S.	+68 10.0	+0.001
291	δ Ophiuchi	16	7	16.419	24	3.1398	+ 0.0083	-0.0021 N.	- 3 20.6	+0.003
292	σ Coronæ	16	9	37.425	11	2.2657	+ 0.0033	-0.0227 M.	+34 12.1	+0.012
293	ε Ophiuchi	16	11	10.850	30	3.1616	+ 0.0084	+0.0061 M.	- 4 21.6	+0.006
294	σ Scorpii	16	12	59.307	16	+ 3.6343	+ 0.0157		-25 15.9	
295	19 Ursæ Min.	16	14	42.834	11	- 1.8135	+ 0.1273	+0.0023 A.	+76 13.0	-0.001
296	γ Herculis	16	15	57.978	22	+ 2.6462	+ 0.0040	-0.0028 M.	+19 28.2	-0.002
297	ξ Coronæ	16	16	50.322	16	2.3432	+ 0.0034	-0.0056 M.	+31 12.4	+0.003
298	η Draconis	16	22	10.072	37	+ 0.7994	+ 0.0190	+0.0024 N.	+61 49.2	-0.009
299	λ Ophiuchi	16	24	6.424	18	3.0222	+ 0.0064		+ 2 16.9	
300	β Herculis	16	24	25.060	25	2.5823	+ 0.0038	-0.0059 M.	+21 47.1	-0.006
301	τ Scorpii	16	27	29.027	21	+ 3.7228	+ 0.0153	+0.0015 M.	-27 56.0	+0.001
302	$\mathcal{A}$ Draconis	16	28	15.478	11	- 0.1465	+ 0.0416	-0.0051 M.	+69 3.6	+0.004
303	ζ Ophiuchi	16	29	43.652	27	+ 3.2950	+ 0.0089	+0.0019 N.	-10 17.4	+0.001
304	17 Draconis	16	33	2.558	12	+ 1.4112	+ 0.0085		+53 11.8	

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305	Pi. XVI. 182	16 33 19.168	24	— 3.4725	+ 0.1990		+78 14.9	
306	ζ Herculis	36 11.880	20	+ 2.2953	+ 0.0035	—0.0315 M.	+31 50.9	+0.003
307	Pi. XVI. 195	36 29.830	12	— 2.6647	+ 0.1428	—0.0200 A.	+77 42.8	+0.010
308	η Herculis	38 16.131	21	+ 2.0499	+ 0.0040	+0.0030 N.	+39 10.9	+0.003
309	ε Scorpii	41 25.578	22	3.9216	+ 0.0163	—0.0481 M.	—34 2.7	—0.006
310	ζ^1 Scorpii	44 28.870	20	4.2153	+ 0.0207		—42 8.1	
311	ζ^2 Scorpii	45 5.566	20	4.2160	+ 0.0206	—0.021 St.	—42 7.6	—0.008
312	δ Herculis	47 51.005	16	2.2787	+ 0.0035	—0.0081 M.	+31 55.6	+0.004
313	κ Ophiuchi	51 16.785	21	2.8552	+ 0.0046	—0.0188 N.	+ 9 35.2	+0.005
314	σ Ophiuchi	53 56.643	15	3.1609	+ 0.0062	—0.0056 M.	— 4 1.0	+0.003
315	ε Herculis	55 7.510	25	2.2957	+ 0.0034	—0.0017 M.	+31 7.6	
316	h Draconis	55 17.439	10	+ 0.2741	+ 0.0218	+0.040 S.	+65 20.5	—0.021
317	ε Ursæ Minoris	59 54.869	36	— 6.4218	+ 0.3047	+0.012 S.	+82 15.2	
318	μ Draconis	17 2 32.386	9	+ 1.2452	+ 0.0080	—0.008 S.	+54 38.9	+0.004
319	η Ophiuchi	2 38.300	26	+ 3.4314	+ 0.0075	+0.0031 M.	—15 33.3	+0.003
320	77 Ur. Min. B.	5 56.155	6	— 1.9499	+ 0.0686		+75 29.0	
321	π Herculis	10 20.749	24	+ 2.0884	+ 0.0035		+36 57.8	
322	ξ Ophiuchi	12 54.969	23	3.5724	+ 0.0075	+0.0207 M.	—20 57.9	+0.012
323	θ Ophiuchi	13 43.313	22	3.6778	+ 0.0082		—24 51.7	+0.007
324	271 Herculis B.	17 17.896	10	1.9643	+ 0.0036		+40 6.5	
325	ρ Herculis	19 1.530	12	2.0697	+ 0.0035		+37 16.3	
326	λ Herculis	25 17.032	12	2.4202	+ 0.0030		+26 12.9	
327	β Draconis	27 23.019	30	+ 1.3523	+ 0.0054	—0.0002 N.	+52 24.1	+0.005
328	Gr. 2456	29 52.818	10	— 4.6435	+ 0.0991		+80 15.1	
329	ι Herculis	35 39.256	11	+ 1.6905	+ 0.0037		+46 4.8	
330	β Ophiuchi	36 48.282	25	+ 2.9633	+ 0.0032	—0.0022 M.	+ 4 37.6	+0.006
331	ω Draconis	37 44.511	10	— 0.3632	+ 0.0141	+0.0042 A.	+68 49.2	+0.001
332	γ Ophiuchi	41 7.502	12	+ 3.0067	+ 0.0030	—0.0030 Ast.	+ 2 45.6	+0.002
333	μ Herculis	41 10.584	21	2.3684	+ 0.0028	—0.0230 N.	+27 48.1	+0.007
334	ψ Draconis	44 20.752	30	— 1.0866	+ 0.0158	—0.0018 A.	+72 12.8	—0.001
335	f Herculis	48 54.442	6	+ 1.9490	+ 0.0029		+40 2.1	
336	ξ Draconis	51 11.695	23	1.0220	+ 0.0041	+0.0139 Ast.	+56 53.7	+0.017
337	θ Herculis	51 37.447	12	2.0543	+ 0.0023		+37 16.2	
338	γ Draconis	53 28.349	27	+ 1.3906	+ 0.0033	+0.0002 N.	+51 30.4	—0.003
339	35 Draconis	55 29.740	9	— 2.7091	+ 0.0121	+0.0113 A.	+76 58.7	—0.007
340	γ Sagittarii	57 8.280	12	+ 3.8559	+ 0.0022	—0.0050 N.	—30 25.3	0.000
341	70 Ophiuchi pr.	58 37.909	26	3.0118	+ 0.0022	+0.0131 M.	+ 2 32.0	+0.014
342	b Herculis	18 1 54.097	10	2.2820	+ 0.0024	—0.0069 M.	+30 32.7	+0.004
343	Gr. 2517	3 24.815	10	1.8047	+ 0.0026		+43 26.8	
344	μ Sagittarii	5 41.482	24	3.5864	+ 0.0011	—0.0001 N.	—21 5.4	+0.006
345	A Herculis	6 49.441	10	2.2561	+ 0.0023	+0.002 S.	+31 22.4	—0.001
346	η Sagittarii	8 29.626	10	+ 4.0703	— 0.0003		—36 47.9	
347	40 Draconis	10 8.177	23	— 4.4872	— 0.0241	+0.0185 M.	+79 58.7	
348	41 Draconis	10 14.467	20	— 4.4895	— 0.0245	+0.0187 M.	+79 58.9	+0.008
349	δ Sagittarii	12 21.183	20	+ 3.8379	— 0.0004	+0.0032 M.	—29 52.9	

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350	36 Draconis	18	13	7.124	11	+ 0.2912	— 0.0002	+0.0541 A.	+64 21.1	—0.034
351	η Serpentis	14	19.569		20	+ 3.1393	+ 0.0011	—0.0373 N.	— 2 55.9	—0.025
352	(δ Ursæ minoris)	15	53.506)		59	—19.4039	— 0.4634	+0.029 W.	+86 36.2	
353	24 Ursæ min.	20	45.011		10	—22.1822	— 0.7778	+0.080 S.	+86 58.9	—0.048
354	χ Draconis	23	29.228		10	— 1.1915	— 0.0146	+0.1148 M.	+72 40.4	0.000
355	42 Draconis	25	35.691		9	+ 0.1584	— 0.0045	+0.0136 M.	+65 28.8	—0.008
356	3 H. Scuti	27	51.705		11	3.2653	— 0.0002	—0.0008 N.	— 8 20.1	0.000
357	45 Draconis	30	14.756		10	1.0346	— 0.0006	—0.003 M.	+56 56.6	+0.002
358	110 Herculis	39	51.205		24	2.5808	+ 0.0014	+0.0025 M.	+20 25.2	+0.003
359	β Lyræ	45	5.770		21	2.2127	+ 0.0017	+0.0012 N.	+33 12.5	+0.006
360	ν^1 Sagittarii	46	1.172		14	3.6245	— 0.0042		—22 54.5	
361	σ Sagittarii	46	53.635		25	3.7225	— 0.0052	+0.0005 N.	—26 27.7	0.000
362	ν^2 Sagittarii	46	57.503		15	3.6221	— 0.0043	+0.0087 M.	—22 50.2	—0.005
363	ϕ Draconis	49	12.450		10	0.8777	— 0.0042	+0.0081 M.	+59 13.4	—0.005
364	θ Serpentis pr.	49	30.530		22	+ 2.9789	— 0.0002		+ 4 1.8	
365	50 Draconis	50	42.807		23	— 1.8913	— 0.0540		+75 16.4	
366	5 Heis Aquilæ	52	14.383		12	+ 2.6682	+ 0.0009		+17 10.9	
367	ε Aquilæ	53	29.760		24	2.7251	+ 0.0007	—0.0088 M.	+14 53.2	—0.005
368	γ Lyræ	53	53.652		12	2.2425	+ 0.0016		+32 30.4	
369	ϕ Sagittarii	56	35.543		19	3.5930	— 0.0052	+0.0061 M.	—21 56.2	+0.007
370	16 Lyræ	57	37.195		13	1.6947	+ 0.0004		+46 44.7	
371	ζ Aquilæ	59	12.365		41	2.7567	+ 0.0005	+0.0001 N.	+13 39.9	+0.010
372	18 Aquilæ	19	0 37.394		12	2.8232	+ 0.0002		+10 51.9	
373	π Sagittarii	1	44.116		20	3.5716	— 0.0056		—21 14.1	
374	ι Lyræ	2	29.087		11	2.1393	+ 0.0014	+0.0012 A.	+35 53.4	
375	η Lyræ	9	9.849		11	2.0404	+ 0.0012		+38 54.9	
376	ω Aquilæ	11	28.841		18	2.8154	— 0.0001	0.000 A.	+11 21.3	+0.007
377	δ Draconis	12	30.896		10	0.0151	— 0.0224	+0.0203 M.	+67 25.4	0.000
378	β Sagittarii	12	55.765		13	+ 4.3301	— 0.0193		—44 45.7	
379	59 Draconis	14	5.380		11	— 2.1420	— 0.0927	+0.008 S.	+76 20.0	—0.005
380	τ Draconis	18	7.662		10	— 1.0772	— 0.0560	—0.0323 M.	+73 6.2	+0.004
381	δ Aquilæ	18	41.531		21	+ 3.0083	— 0.0016	+0.0175 N.	+ 2 50.9	+0.007
382	π Draconis	19	58.121		11	0.3199	— 0.0185		+65 27.3	0.000
383	6 Vulpeculæ	23	5.301		21	2.5041	+ 0.0011	—0.0097 M.	+24 23.6	—0.012
384	β Cygni	25	16.659		23	2.4177	+ 0.0012		+27 40.7	0.000
385	ι Cygni	26	18.107		13	1.5111	— 0.0019	+0.0010 M.	+51 26.6	—0.001
386	h Sagittarii	28	29.454		24	+ 3.6531	— 0.0100	+0.0059 M.	—25 10.7	+0.008
387	Groomb. 2900.	29	47.902		10	— 3.4865	— 0.1973	+0.0024 A.	+79 19.8	—0.001
388	θ Cygni	32	49.209		17	+ 1.6112	— 0.0013	—0.0018 A.	+49 54.6	—0.003
389	γ Sagittæ	52	45.241		14	+ 2.6622	+ 0.0004	+0.0053 M.	+19 7.7	+0.006
390	(λ Ursæ Minoris)	59	8.861)		37	—57.5734	— 29.840	—0.081 S.	+88 54.3	
391	Pi. XIX. 414	20	1 22.164		10	+ 2.7344	0.0000		+16 15.5	
392	Pi. XIX. 420	1	57.246		7	2.7346	0.0000		+16 16.4	
393	Pi. XX. 6	3	54.246		8	3.2013	— 0.0056		— 6 29.2	
394	Pi. XX. 29	6	51.937		10	+ 3.6612	— 0.0153	+0.0982 A.	—27 26.0	—0.070

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395	ρ Aquilæ	20	8	1.879	20	+ 2.7717	— 0.0003	+0.0048 M.	+14 47.3	+0.003
396	α Cephei	13	22.693		14	— 1.8861	— 0.1639	+0.0010 A.	+77 18.2	+0.004
397	23 Aquilæ H.	16	29.368		11	+ 2.9758	— 0.0026		+ 4 54.8	
398	γ Cygni	17	23.015		13	2.1504	+ 0.0021		+39 49.6	000
399	π Capricorni	19	35.536		18	3.4410	— 0.0114	+0.0014 N.	—18 39.1	000
400	ρ Capricorni	21	9.537		19	3.4309	— 0.0113	—0.0011 M.	—18 15.4	+ .012
401	Pi. XX. 174	25	0.464		9	3.2671	— 0.0079	+0.0194 A.	—10 18.7	— .014
402	ϵ Delphini	26	45.847		15	2.8655	— 0.0011	+0.0020 N.	+10 50.8	— .001
403	θ Cephei	27	18.714		19	+ 1.0117	— 0.0150	+0.0083 M.	+62 32.5	+ .008
404	R. C. 4894	29	33.262		9	— 8.3691	— 1.2582	—0.06 S.	+84 41.7	+ .042
405	Bradley 2673	30	34.168		20	— 0.2015	— 0.0664		+72 44	.000
406	1 Aquarii	32	29.789		9	+ 3.0707	— 0.0042	+0.0097 M.	+ 0 0.8	— .007
407	α Delphini	33	22.079		17	2.7814	0.0000	+0.0067 M.	+15 26.3	+0.013
408	226 Cygni B.	34	36.988		10	+ 2.1917	+ 0.0028		+40 6.2	
409	74 Draconis	37	7.874		39	— 3.1911	— 0.3534	+0.020 S.	+80 37.0	
410	236 Cygni B.	40	8.787		7	+ 1.9806	+ 0.0021		+46 48.5	
411	ϵ Cygni	40	44.951		19	2.3958	+ 0.0031	+0.0308 M.	+33 28.0	+0.039
412	λ Cygni	42	9.105		10	2.3328	+ 0.0033	+0.0003 A.	+35 59.8	
413	η Cephei	42	32.349		25	1.2165	— 0.0109	+0.0171 M.	+61 18.9	+0.023
414	32 Vulpeculæ	48	48.447		17	2.5544	+ 0.0028	+0.0007 A.	+27 32.7	+0.008
415	Pi. XX. 376	48	55.108		9	+ 3.0014	— 0.0030	+0.008 S.	+ 4 1.1	—0.006
416	76 Draconis	52	9.998		22	— 3.9065	— 0.5170	+0.0046 A.	+82 1.7	+0.005
417	Br. 2749.	53	36.601		10	— 2.4625	— 0.3062	—0.0082 A.	+80 2.6	+0.003
418	6 Equulei B.	57	54.137		9	+ 3.0419	— 0.0038		+ 1 41.3	
419	61 Cygni med.	21	0 51.647		35	2.3328	+ 0.0085	+0.3475 M.	+38 5.2	+0.012
420	Pi. XXI. 1.	2	55.386		9	2.5395	+ 0.0038	+0.006 S.	+29 39.7	—0.004
421	ζ Cygni	7	11.495		19	2.5494	+ 0.0040	—0.0007 N.	+29 40.5	+0.007
422	114 Capri. B.	7	33.305		8	3.3660	— 0.0130		—17 54.0	
423	4 Piscis Aust.	9	44.820		9	3.6522	— 0.0242	+0.0061 M.	—32 44.1	—0.004
424	11 Pegasi B.	14	6.110		16	2.7229	+ 0.0026		+21 27.4	
425	α Cephei	15	21.330		28	1.4151	— 0.0069	+0.0231 N.	+62 0.9	0.000
426	326 Cygni B.	15	40.927		11	2.5211	+ 0.0049		+32 2.4	
427	Pi. XXI. 120	18	34.479		9	2.6562	+ 0.0038		+25 35.7	
428	70 Cygni	21	51.255		10	+ 2.4405	+ 0.0060		+36 31.9	
429	119 Cephei B.	24	16.007		39	— 4.5214	— 0.8286	+0.010 S.	+83 41.1	
430	β Aquarii	24	27.063		17	+ 3.1615	— 0.0070	+0.0020 N.	— 6 9.8	+0.007
431	26 Pegasi B.	24	37.908		10	2.8996	0.0000		+11 32.8	
432	β Cephei	26	54.388		30	+ 0.7997	— 0.0340	+0.0017 W.	+69 58.1	
433	122 Cephei B.	28	42.151		10	— 1.5484	— 0.2688	+0.016 S.	+79 56.1	—0.012
434	F. 376 Aquarii	30	37.825		16	+ 3.0850	— 0.0046		— 0 59.8	
435	γ Capricorni	32	36.544		21	3.3202	— 0.0129	+0.0154 M.	—17 16.2	+0.010
436	ι Piscis Aust.	36	54.008		10	3.5909	— 0.0259	+0.004 S.	—33 38.4	—0.003
437	ϵ Pegasi	37	33.353		13	2.9440	— 0.0004	+0.0028 N.	+ 9 15.5	+0.007
438	δ Capricorni	39	35.200		16	3.3021	— 0.0126	+0.0173 M.	—16 44.3	+0.010
439	θ Piscis Aust.	39	48.477		10	+ 3.5418	— 0.0239	—0.0009 M.	—31 31.3	+ .001

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440	388 Cygni B.	21 42 43.467	10	+ 2.4750	+ 0.0082		+38 19.8	
441	195 Heis Cygni	44 10.844	11	2.4327	+ 0.0087		+40 31.2	
442	16 Pegasi	46 55.298	19	2.7244	+ 0.0054	+0.0015 A.	+25 17.5	+0.006
443	Pi. XXI. 320	47 7.370	8	3.1338	- 0.0062		- 4 54.5	
444	17 Pegasi	50 21.432	11	2.9259	+ 0.0009		+11 26.2	.000
445	η Piscis Aust.	53 4.602	10	3.4622	- 0.0216		-29 6.0	.000
446	911 Mayeri	54 45.868	10	3.3040	- 0.0137		-18 32.9	
447	32 Aquarii	57 50.881	11	3.0894	- 0.0043		- 1 33.5	.000
448	μ Piscis Aust.	22 0 30.082	10	3.5141	- 0.0260	+0.006 S.	-33 38.7	- .004
449	ι Pegasi	0 43.691	23	2.7653	+ 0.0062	+0.020 S.	+24 41.2	+ .015
450	Br. 2912	3 19.871	9	3.1228	- 0.0056	+0.0034 M.	- 4 33.3	- .003
451	Pi. XXII. 19	6 9.101	10	3.3796	- 0.0188	+0.010 S.	-25 50.9	-0.008
452	ζ Cephei	6 10.472	27	2.0696	+ 0.0115		+57 32.2	+0.116
453	1 Lacertæ H.	8 5.219	9	2.5622	+ 0.0112	+0.004 S.	+39 2.8	-0.003
454	θ Aquarii	9 42.538	22	3.1629	- 0.0075	+0.0082 N.	- 8 27.3	+0.008
455	Br. 2942	10 25.362	10	1.1037	- 0.0262		+72 38.2	
456	γ Aquarii	14 41.023	18	3.0923	- 0.0040	+0.0089 M.	- 2 4.0	- .002
457	Pi. XXII. 81	16 27.287	9	3.1516	- 0.0070		- 7 52.5	
458	3 Lacertæ	18 15.355	11	2.3477	+ 0.0153	-0.0005 A.	+51 33.2	.000
459	18 Heis Lacer.	21 31.734	10	2.6180	+ 0.0129		+39 7.4	
460	σ Aquarii	23 30.116	20	+ 3.1808	- 0.0087		-11 22.1	.000
461	32 Cephei H.	23 35.084	9	- 3.7550	- 1.1736	+0.050 S.	+85 25.6	-0.038
462	Groomb. 3804	26 28.544	10	+ 2.6400	+ 0.0135		+39 5.2	
463	η Aquarii	28 25.157	23	3.0783	- 0.0030	+0.0062 N.	- 0 48.7	+0.008
464	226 Cephei B.	29 53.405	6	1.0860	- 0.0329		+75 31.8	.000
465	ϵ Piscis Aust.	33 11.053	10	3.3310	- 0.0196		-27 44.8	.000
466	ζ Pegasi	34 43.821	23	2.9841	+ 0.0024	+0.0063 N.	+10 7.7	+0.009
467	Pi. XXII. 186	34 11.401	9	2.9504	+ 0.0040	+0.020 S.	+13 50.4	-0.016
468	Pi. XXII. 195	35 17.510	2	2.9522	+ 0.0040		+13 48.7	
469	η Pegasi	36 40.592	21	2.8018	+ 0.0110		+29 31.0	.000
470	13 Lacertæ	38 4.539	10	+ 2.6627	+ 0.0160	-0.0002 A.	+41 6.7	.000
471	ξ Pegasi	39 56.999	21	2.9780	+ 0.0033	+0.015 S.	+11 28.9	+ .011
472	69 Aquarii	40 32.582	10	3.1906	- 0.0101		-14 46.0	.000
473	ι Cephei	44 52.807	9	2.1269	+ 0.0224	-0.0122 M.	+65 29.45	+ .001
474	δ Aquarii	47 29.011	22	+ 3.1944	- 0.0110		-16 32.3	
475	34 Cephei H.	47 55.301	34	- 0.0440	- 0.2202	+0.007 S.	+82 26.2	
476	36 Cephei H.	55 21.527	10	- 0.2587	- 0.2997	+0.050 S.	+83 37.4	-0.039
477	β Piscium	57 0.452	20	+ 3.0513	+ 0.0002	+0.0023 M.	+ 3 5.6	+ .002
478	118 Heis Peg.	23 0 49.363	11	2.9439	+ 0.0088		+20 24.4	
479	Pi. XXIII. 4	4 0.393	11	2.9729	+ 0.0073		+16 51.8	
480	128 Heis Peg.	7 57.254	11	2.9409	+ 0.0107		+23 22.2	
481	130 Heis Peg.	9 18.898	11	2.9401	+ 0.0112		+24 2.1	
482	γ Piscium	10 10.087	20	3.0581	+ 0.0007	+0.0493 M.	+ 2 32.7	+0.008
483	Pi. XXIII. 36	11 31.708	10	3.2546	- 0.0221		-33 12.8	
484	ϕ Cephei	13 5.540	11	+ 2.4190	+ 0.0401	+0.011 S.	+67 22.4	+ .003

Number.	Star's Name.	A.R. 1865.0.	No. Obs.	Precession.	Secular Variation.	Proper Motion.	Declination.	$\Delta\alpha$.
		<i>h. m. s.</i>		<i>s.</i>	<i>s.</i>	<i>s.</i>	<i>° ' "</i>	<i>s.</i>
485	D.M.+35°5012	23 14 51.573	11	+ 2.8825	+ 0.0182		+35 45.7	
486	<i>b</i> Aquarii	15 52.697	17	3.1683	- 0.0123	-0.0086 M.	-20 50.2	- .006
487	Bradley 3109	17 9.665	9	2.9169	+ 0.0161	+0.018 S.	+31 47.4	- .014
488	Pi. XXIII. 82	19 28.351	10	3.1682	- 0.0132		-22 28.9	
489	α Piscium	20 0.791	17	3.0688	+ 0.0001	+0.0070 A.	+ 0 31.0	+0.008
490	347 Aquarii B.	25 26.169	10	+ 3.1127	- 0.0062		-11 44.6	
491	39 Cephei H.	27 50.384	63	- 0.0421	- 0.5039	+0.087 S.	+86 33.8	
492	Pi. XXIII. 133	30 39.580	8	+ 3.1129	- 0.0071		-13 48.5	
493	ϵ Piscium	33 0.490	18	3.0575	+ 0.0031	+0.0260 N.	+ 4 53.7	+0.006
494	γ Cephei	33 50.022	25	2.4173	+ 0.0740	-0.015 S.	+76 52.7	+0.003
495	Pi. XXIII. 153	34 9.704	11	3.1040	- 0.0061		-12 25.7	
496	368 Aquarii B.	35 28.140	10	3.1124	- 0.0082		-16 11.6	
497	979 Mayeri	37 55.678	11	3.0564	+ 0.0042		+ 6 26.6	
498	981 Mayeri	40 18.779	10	3.0967	- 0.0058		-12 39.4	
499	δ Sculptoris	41 53.432	15	3.1291	- 0.0160	+0.005 S.	-28 52.6	+0.006
500	Pi. XXIII. 203	43 35.432	8	3.0968	- 0.0071	+0.008 S.	-15 9.2	-0.006
501	Bradley 3181	45 31.145	16	2.7095	+ 0.0989	+0.0787 A.	+76 51.1	-0.061
502	Groomb. 4163	48 17.725	9	2.8382	+ 0.0878		+73 39.5	
503	Bradley 3187	50 11.199	10	2.6394	+ 0.1633	+0.030 S.	+82 26.4	-0.023
504	ω Piscium	52 22.793	15	3.0662	+ 0.0049	+0.0111 N.	+ 6 7.0	+0.005
505	309 Cephei B.	53 15.254	26	2.5146	+ 0.2711	+0.036 S.	+85 57.3	
506	2 Ceti	56 49.352	16	+ 3.0774	- 0.0079	+0.0014 M.	-18 5.2	+ .011

5 URSÆ MINORIS, BODE.

6 URSÆ MINORIS, BODE.

		Corr. of A.R., 1870.		Annual Variation.	Corr. of Dec., 1870.		Annual Variation.
		s.	s.	s.	"	"	"
Jan.	0	+ 2.03	+ 4.57	-0.005	-20.47	"	0.000
	10	+ 6.60	+ 4.42	-0.014	-20.51	-0.04	-0.001
	20	+11.02	+ 4.09	-0.024	-19.91	+0.60	-0.001
	30	+15.11	+ 3.62	-0.032	-18.68	+1.23	-0.002
Feb.	9	+18.73	+ 3.03	-0.039	-16.87	+2.29	-0.002
	19	+21.76	+ 2.32	-0.046	-14.58	+2.68	-0.003
March	1	+24.08	+ 1.52	-0.050	-11.90	+2.97	-0.003
	11	+25.60	+ 0.71	-0.053	- 8.93	+3.11	-0.003
	21	+26.31	-0.13	-0.054	- 5.82	+3.14	-0.003
	31	+26.18	-0.94	-0.052	- 2.68	+3.04	-0.003
April	10	+25.24	-1.70	-0.050	+ 0.36	+2.82	-0.003
	20	+23.54	-2.38	-0.045	+ 3.18	+2.51	-0.003
	30	+21.16	-2.96	-0.039	+ 5.69	+2.11	-0.003
May	10	+18.20	-3.42	-0.031	+ 7.80	+1.63	-0.002
	20	+14.78	-3.77	-0.024	+ 9.43	+1.11	-0.002
	30	+11.01	-4.01	-0.014	+10.54	+0.56	-0.001
June	9	+ 7.00	-4.10	-0.006	+11.10	-0.02	-0.001
	19	+ 2.90	-4.10	+0.002	+11.08	-0.58	0.000
	29	- 1.20	-3.99	+0.010	+10.50	-1.13	0.000
July	9	- 5.19	-3.77	+0.018	+ 9.37	-1.66	+0.001
	19	- 8.96	-3.46	+0.024	+ 7.71	-2.14	+0.001
	29	-12.42	-3.08	+0.029	+ 5.57	-2.57	+0.002
Aug.	8	-15.50	-2.64	+0.034	+ 3.00	-2.96	+0.002
	18	-18.14	-2.12	+0.038	+ 0.04	-3.29	+0.002
	28	-20.26	-1.57	+0.040	- 3.25	-3.53	+0.003
Sept.	7	-21.83	-0.97	+0.042	- 6.78	-3.73	+0.003
	17	-22.80	-0.34	+0.044	-10.51	-3.83	+0.003
	27	-23.14	+0.31	+0.044	-14.34	-3.87	+0.003
Oct.	7	-22.83	+0.98	+0.042	-18.21	-3.82	+0.004
	17	-21.85	+1.63	+0.041	-22.03	-3.68	+0.003
	27	-20.22	+2.28	+0.038	-25.71	-3.46	+0.003
Nov.	6	-17.94	+2.88	+0.036	-29.17	-3.15	+0.003
	16	-15.06	+3.42	+0.030	-32.32	-2.74	+0.002
	26	-11.64	+3.90	+0.024	-35.06	-2.26	+0.002
Dec.	6	- 7.74	+4.24	+0.017	-37.32	-1.71	+0.001
	16	- 3.50	+4.50	+0.009	-39.03	-1.10	+0.001
	26	+ 1.00	+4.58	0.000	-40.13	-0.46	0.000
	36	+ 5.58		-0.009	-40.59		0.000

		Corr. of A.R., 1870.		Annual Variation.	Corr. of Dec., 1870.		Annual Variation.
		s.	s.	s.	"	"	"
	0	+ 3.32	+ 8.13	-0.011	-20.46	"	0.000
	10	+11.45	+ 7.85	-0.039	-20.49	-0.03	0.000
	20	+19.30	+ 7.31	-0.065	-19.87	+0.62	0.000
	30	+26.61	+ 6.47	-0.092	-18.63	+1.24	0.000
						+1.82	
	33.08	5.40	-0.114	-16.81	+2.30	-0.001	
	38.48	4.13	-0.133	-14.51	+2.69	-0.001	
	42.61	2.74	-0.147	-11.82	+2.97	-0.001	
	45.35	+1.24	-0.157	- 8.85	+3.12	-0.001	
	46.59	-0.26	-0.161	- 5.73	+3.14	-0.001	
	46.33	1.72	-0.160	- 2.59	+3.04	-0.001	
	44.61	3.10	-0.153	+ 0.45	+2.83	-0.001	
	41.51	4.33	-0.142	+ 3.28	+2.50	-0.001	
	37.18	5.38	-0.127	+ 5.78	+2.10	-0.001	
	31.80	6.24	-0.108	+ 7.88	+1.63	0.000	
	25.56	6.87	-0.086	+ 9.51	+1.10	0.000	
	18.69	7.30	-0.061	+10.61	+0.55	0.000	
	11.39	7.49	-0.035	+11.16	-0.02	0.000	
	+ 3.90	7.48	-0.009	+11.14	-0.59	0.000	
	- 3.58	7.27	+0.018	+10.55	-1.15	0.000	
	10.85	6.89	+0.043	+ 9.40	-1.66	0.000	
	17.74	6.34	+0.068	+ 7.74	-2.15	0.000	
	24.08	5.67	+0.090	+ 5.59	-2.59	0.000	
	29.75	4.82	+0.110	+ 3.00	-2.97	+0.001	
	34.57	3.93	+0.128	+ 0.03	-3.29	+0.001	
	38.50	2.92	+0.142	- 3.26	-3.54	+0.001	
	41.42	1.85	+0.152	- 6.80	-3.72	+0.001	
	43.27	-0.73	+0.159	-10.52	-3.84	+0.001	
	44.00	+0.45	+0.161	-14.36	-3.87	+0.001	
	43.55	1.63	+0.160	-18.23	-3.81	+0.001	
	41.92	2.80	+0.155	-22.04	-3.67	+0.001	
	39.12	3.96	+0.145	-25.71	-3.45	+0.001	
	35.16	5.05	+0.132	-29.16	-3.12	+0.001	
	30.11	6.00	+0.114	-32.28	-2.74	+0.001	
	24.11	6.85	+0.093	-35.02	-2.25	0.000	
	17.26	7.51	+0.070	-37.27	-1.69	0.000	
	9.75	7.95	+0.044	-38.96	-1.09	0.000	
	- 1.80	+8.12	+0.017	-40.05	-0.44	0.000	
	+ 6.32		-0.011	-40.49		0.000	

Add 1 day to the tabular date in Jan. and Feb. of leap years.

Add to the Reduced Date

For Upper Culmination before } Sept. 24 { + 1
after } + 2

For Lower Culmination before } Mar. 25 { + 0.5
after } + 1.5

Add 1 day to the tabular date in Jan. and Feb. of leap years.

Add to the Reduced Date

For Upper Culmination before } Sept. 24 { + 1
after } + 2

For Lower Culmination before } Mar. 26 { + 0.5
after } + 1.5

43 CEPHEI, HEVELII.							214 CAMELOPARDALI, BODE.								
		Corr. of A.R., 1870.		Annual Variation.	Corr. of Dec., 1870.		Annual Variation.			Corr. of A.R., 1870.		Annual Variation.	Corr. of Dec., 1870.		Annual Variation.
		s.	s.	s.	"	"	"			s.	s.	s.	"	"	"
Jan.	0	+ 1.83	-2.71	+0.011	+20.18	+0.46	-0.001			- 3.71	+2.78	+0.007	-20.04	-1.04	-0.001
	10	- 0.88	-2.71	+0.008	+20.64	-0.20	+0.001			- 0.93	+2.83	+0.004	-21.08	-0.38	0.000
	20	- 3.59	-2.62	+0.004	+20.44	-0.84	+0.003			+ 1.90	+2.79	+0.001	-21.46	+0.29	0.000
	30	- 6.21	-2.42	+0.001	+19.60	-1.43	+0.004			+ 4.69	+2.64	-0.002	-21.17	+0.94	+0.001
Feb.	9	- 8.63	-2.14	-0.003	+18.17	-1.98	+0.006			+ 7.33	+2.39	-0.005	-20.23	+1.54	+0.001
	19	-10.77	-1.76	-0.007	+16.19	-2.42	+0.007			+ 9.72	+2.06	-0.007	-18.69	+2.07	+0.002
March	1	-12.53	-1.32	-0.010	+13.77	-2.76	+0.009			+11.78	+1.65	-0.010	-16.62	+2.50	+0.002
	11	-13.85	-0.81	-0.013	+11.01	-2.99	+0.009			+13.43	+1.19	-0.012	-14.12	+2.84	+0.002
	21	-14.66	-0.30	-0.015	+ 8.02	-3.10	+0.010			+14.62	+0.69	-0.014	-11.28	+3.04	+0.003
	31	-14.96	+0.24	-0.017	+ 4.92	-3.07	+0.010			+15.31	+0.19	-0.015	- 8.24	+3.14	+0.003
April	10	-14.72	+0.77	-0.018	+ 1.85	-2.94	+0.010			+15.50	-0.33	-0.016	- 5.10	+3.10	+0.003
	20	-13.95	+1.25	-0.018	- 1.09	-2.69	+0.009			+15.17	-0.81	-0.016	- 2.00	+2.94	+0.003
	30	-12.70	+1.70	-0.018	- 3.78	-2.34	+0.009			+14.36	-1.24	-0.016	+ 0.94	+2.70	+0.003
May	10	-11.00	+2.07	-0.017	- 6.12	-1.93	+0.007			+13.12	-1.63	-0.015	+ 3.64	+2.34	+0.002
	20	- 8.93	+2.39	-0.016	- 8.05	-1.44	+0.006			+11.49	-1.97	-0.013	+ 5.98	+1.93	+0.002
	30	- 6.54	+2.63	-0.014	- 9.49	-0.92	+0.005			+ 9.52	-2.24	-0.011	+ 7.91	+1.45	+0.002
June	9	- 3.91	+2.78	-0.011	-10.41	-0.37	+0.003			+ 7.28	-2.43	-0.009	+ 9.36	+0.92	+0.001
	19	- 1.13	+2.87	-0.008	-10.78	+0.20	+0.002			+ 4.85	-2.57	-0.006	+10.28	+0.39	+0.001
	29	+ 1.74	+2.87	-0.004	-10.58	+0.75	0.000			+ 2.28	-2.62	-0.003	+10.67	-0.17	0.000
July	9	+ 4.61	+2.80	-0.001	- 9.83	+1.28	-0.002			- 0.34	-2.63	+0.001	+10.50	-0.72	0.000
	19	+ 7.41	+2.67	+0.003	- 8.55	+1.79	-0.004			- 2.97	-2.56	+0.004	+ 9.78	-1.25	-0.001
	29	+10.08	+2.49	+0.007	- 6.76	+2.26	-0.006			- 5.53	-2.44	+0.007	+ 8.53	-1.75	-0.001
Aug.	8	+12.57	+2.24	+0.011	- 4.50	+2.66	-0.007			- 7.97	-2.27	+0.010	+ 6.78	-2.23	-0.002
	18	+14.81	+1.96	+0.015	- 1.84	+3.04	-0.008			-10.24	-2.04	+0.013	+ 4.55	-2.65	-0.003
	28	+16.77	+1.63	+0.018	+ 1.20	+3.32	-0.009			-12.28	-1.77	+0.016	+ 1.90	-3.01	-0.003
Sept.	7	+18.40	+1.27	+0.022	+ 4.52	+3.57	-0.011			-14.05	-1.46	+0.019	- 1.11	-3.34	-0.003
	17	+19.67	+0.89	+0.025	+ 8.09	+3.72	-0.011			-15.51	-1.11	+0.021	- 4.45	-3.58	-0.004
	27	+20.56	+0.48	+0.027	+11.81	+3.81	-0.012			-16.62	-0.73	+0.023	- 8.03	-3.75	-0.004
Oct.	7	+21.04	+0.06	+0.029	+15.62	+3.82	-0.012			-17.35	-0.31	+0.025	-11.78	-3.86	-0.004
	17	+21.10	-0.36	+0.031	+19.44	+3.74	-0.012			-17.66	+0.11	+0.026	-15.64	-3.87	-0.004
	27	+20.74	-0.79	+0.032	+23.18	+3.57	-0.012			-17.55	+0.56	+0.026	-19.51	-3.80	-0.004
Nov.	6	+19.95	-1.20	+0.033	+26.75	+3.33	-0.011			-16.99	+1.01	+0.026	-23.31	-3.64	-0.004
	16	+18.75	-1.59	+0.033	+30.08	+2.97	-0.010			-15.98	+1.42	+0.026	-26.95	-3.36	-0.004
	26	+17.16	-1.95	+0.032	+33.05	+2.55	-0.009			-14.56	+1.83	+0.025	-30.31	-3.01	-0.003
Dec.	6	+15.21	-2.26	+0.031	+35.60	+2.05	-0.007			-12.73	+2.18	+0.023	-33.32	-2.56	-0.003
	16	+12.95	-2.49	+0.029	+37.65	+1.47	-0.006			-10.55	+2.48	+0.021	-35.88	-2.04	-0.003
	26	+10.46	-2.65	+0.026	+39.12	+0.86	-0.004			- 8.07	+2.68	+0.019	-37.92	-1.43	-0.003
	36	+ 7.81		+0.023	+39.98		-0.003			- 5.39		+0.016	-39.35		-0.002
Add 1 day to the tabular date in Jan. and Feb. of leap years. Add to the Reduced Date For Upper Culmination before } April 20 { + 1 after } + 2 For Lower Culmination before } Oct. 4 { + 1.5 after } + 2.5							Add 1 day to the tabular date in Jan. and Feb. of leap years. Add to the Reduced Date For Upper Culmination before } Oct. 11 { + 1 after } + 2 For Lower Culmination before } April 11 { + 0.5 after } + 1.5								

Add 1 day to the tabular dates in Jan. and Feb. of leap years.

Add to the Reduced Date

For Upper Culmination before	}	April 29	{	+ 1
after				+ 2
For Lower Culmination before	}	Oct. 29	{	+ 1.5
after				+ 2.5

323 CEPHEI, BODE.							57 URSÆ MINORIS, BODE.								
Corr. of A.R., 1870.			Annual Variation.	Corr. of Dec., 1870.			Annual Variation.	Corr. of A.R., 1870.			Annual Variation.	Corr. of Dec., 1870.			Annual Variation.
			s.				"				s.				"
Jan.	0	+14.43	-2.15	+0.034	+14.60	+2.36	-0.020	-23.32	+3.96	+0.079	-15.14	-2.44	-0.023		
	10	12.28	2.56	+0.035	+16.96	+1.85	-0.016	-19.36	+4.62	+0.079	-17.58	-1.92	-0.019		
	20	9.72	2.89	+0.035	+18.81	+1.28	-0.012	-14.74	+5.11	+0.077	-19.50	-1.32	-0.015		
	30	6.83	3.10	+0.036	+20.09	+0.65	-0.008	-9.63	+5.39	+0.073	-20.82	-0.68	-0.010		
Feb.	9	3.73	3.17	+0.033	+20.74	+0.02	-0.004	-4.24	+5.47	+0.066	-21.50	-0.02	-0.005		
	19	+0.56	3.11	+0.030	+20.76	-0.60	0.000	+1.23	+5.32	+0.058	-21.52	+0.64	0.000		
March	1	-2.55	2.93	+0.026	+20.16	-1.19	+0.005	+6.55	+4.97	+0.048	-20.88	+1.23	+0.005		
	11	5.48	2.62	+0.022	+18.97	-1.74	+0.009	+11.52	+4.44	+0.037	-19.65	+1.80	+0.010		
	21	8.10	2.21	+0.017	+17.23	-2.19	+0.012	+15.96	+3.73	+0.025	-17.85	+2.26	+0.014		
	31	10.31	1.72	+0.012	+15.04	-2.55	+0.016	+19.69	+2.91	+0.013	-15.59	+2.64	+0.018		
April	10	12.03	1.16	+0.006	+12.49	-2.81	+0.018	+22.60	+1.98	+0.001	-12.95	+2.91	+0.021		
	20	13.19	-0.55	+0.001	+9.68	-2.95	+0.019	+24.58	+0.99	-0.010	-10.04	+3.06	+0.023		
	30	13.74	+0.06	-0.004	+6.73	-3.00	+0.020	+25.57	0.00	-0.020	-6.98	+3.10	+0.024		
May	10	13.68	0.67	-0.008	+3.73	-2.93	+0.020	+25.57	-1.00	-0.028	-3.88	+3.04	+0.024		
	20	13.01	1.26	-0.012	+0.80	-2.78	+0.019	+24.57	-1.94	-0.035	-0.84	+2.87	+0.023		
	30	11.75	1.80	-0.014	-1.98	-2.52	+0.018	+22.63	-2.81	-0.040	+2.03	+2.61	+0.021		
June	9	9.95	2.29	-0.017	-4.50	-2.19	+0.015	+19.82	-3.61	-0.042	+4.64	+2.29	+0.018		
	19	7.66	2.73	-0.018	-6.69	-1.82	+0.012	+16.21	-4.30	-0.042	+6.93	+1.89	+0.014		
	29	4.93	3.07	-0.018	-8.51	-1.38	+0.009	+11.91	-4.87	-0.041	+8.82	+1.44	+0.010		
July	9	-1.86	3.35	-0.017	-9.89	-0.91	+0.004	+7.04	-5.32	-0.037	+10.26	+0.97	+0.005		
	19	+1.49	3.55	-0.016	-10.80	-0.43	0.000	+1.72	-5.65	-0.030	+11.23	+0.46	0.000		
	29	5.04	3.68	-0.014	-11.23	+0.06	-0.005	-3.93	-5.85	-0.023	+11.69	-0.05	-0.005		
Aug.	8	8.72	3.72	-0.010	-11.17	+0.56	-0.010	-9.78	-5.92	-0.013	+11.64	-0.56	-0.011		
	18	12.44	3.69	-0.006	-10.61	+1.04	-0.015	-15.70	-5.87	-0.002	+11.08	-1.06	-0.017		
	28	16.13	3.58	-0.001	-9.57	+1.50	-0.020	-21.57	-5.70	+0.010	+10.02	-1.54	-0.023		
Sept.	7	19.71	3.41	+0.004	-8.07	+1.93	-0.025	-27.27	-5.41	+0.023	+8.48	-2.00	-0.029		
	17	23.12	3.17	+0.010	-6.14	+2.34	-0.029	-32.68	-4.98	+0.038	+6.48	-2.42	-0.034		
	27	26.29	2.86	+0.016	-3.80	+2.69	-0.033	-37.66	-4.46	+0.053	+4.06	-2.79	-0.039		
Oct.	7	29.15	2.49	+0.022	-1.11	+3.01	-0.037	-42.12	-3.81	+0.067	+1.27	-3.11	-0.043		
	17	31.64	2.05	+0.029	+1.90	+3.24	-0.041	-45.93	-3.06	+0.082	-1.84	-3.37	-0.047		
	27	33.69	1.56	+0.035	+5.14	+3.43	-0.043	-48.99	-2.22	+0.096	-5.21	-3.56	-0.050		
Nov.	6	35.25	1.03	+0.042	+8.57	+3.52	-0.045	-51.21	-1.31	+0.110	-8.77	-3.67	-0.052		
	16	36.28	+0.47	+0.048	+12.09	+3.55	-0.046	-52.52	-0.34	+0.122	-12.44	-3.68	-0.054		
	26	36.75	-0.13	+0.053	+15.64	+3.46	-0.047	-52.86	+0.67	+0.133	-16.12	-3.60	-0.054		
Dec.	6	36.62	0.73	+0.058	+19.10	+3.29	-0.046	-52.19	+1.65	+0.142	-19.72	-3.42	-0.054		
	16	35.89	1.30	-0.062	+22.39	+3.02	-0.045	-50.54	+2.61	+0.149	-23.14	-3.13	-0.053		
	26	34.59	-1.84	-0.065	+25.41	+2.64	-0.043	-47.93	+3.48	+0.153	-26.27	-2.73	-0.050		
	36	+32.75		+0.067	+28.05		-0.040	-44.45		+0.155	-29.00		-0.047		

Add 1 day to the tabular date in Jan. and Feb. of leap years.
Add to the Reduced Date
For Upper Culmination before } May 13 { + 1
after } + 2
For Lower Culmination before } Nov. 12 { + 1.5
after } + 2.5

Add 1 day to the tabular date in Jan. and Feb. of leap years.
Add to the Reduced Date
For Upper Culmination before } Nov. 11 { + 1
after } + 2
For Lower Culmination before } May 11 { + 0.5
after } + 1.5

GROOMBRIDGE 750.							62 URSÆ MINORIS, BODE.						
	Corr. of A.R., 1870.		Annual Variation.	Corr. Dec., 1870.		Annual Variation.		Corr. of A.R., 1870.		Annual Variation.	Corr. Dec., 1870.		Annual Variation.
	s.	s.	s.	"	"	"	s.	s.	s.	"	"	"	"
Jan. 0	+12.90	-1.38	+0.020	+12.41	+2.63	-0.019	-9.23	+1.19	+0.008	-12.76	-2.88	-0.008	
10	11.52	-1.76	+0.022	+15.04	+2.18	-0.017	-8.04	+1.46	+0.008	-15.64	-2.41	-0.007	
20	9.76	-2.09	+0.023	+17.22	+1.65	-0.014	-6.58	+1.67	+0.008	-18.05	-1.86	-0.006	
30	7.67	-2.31	+0.023	+18.87	+1.08	-0.011	-4.91	+1.81	+0.008	-19.91	-1.25	-0.005	
Feb. 9	5.36	-2.45	+0.023	+19.95	+0.45	-0.007	-3.10	+1.90	+0.007	-21.16	-0.59	-0.003	
19	2.91	-2.48	+0.022	+20.40	-0.16	-0.003	-1.20	+1.90	+0.007	-21.75	+0.07	-0.001	
March 1	+0.43	-2.40	+0.021	+20.24	-0.77	+0.001	+0.70	+1.83	+0.006	-21.68	+0.72	+0.002	
11	-1.97	-2.23	+0.018	+19.47	-1.35	+0.004	+2.53	+1.70	+0.005	-20.96	+1.34	+0.002	
21	4.20	-1.96	+0.016	+18.12	-1.84	+0.008	+4.23	+1.51	+0.004	-19.62	+1.88	+0.003	
31	6.16	-1.61	+0.012	+16.28	-2.27	+0.011	+5.74	+1.26	+0.003	-17.74	+2.35	+0.004	
April 10	7.77	-1.21	+0.009	+14.01	-2.59	+0.014	+7.00	+0.98	+0.001	-15.39	+2.72	+0.005	
20	8.98	-0.76	+0.006	+11.42	-2.83	+0.015	+7.98	+0.66	0.000	-12.67	+2.98	+0.006	
30	9.74	-0.28	+0.003	+8.59	-2.93	+0.017	+8.64	+0.34	0.000	-9.69	+3.12	+0.006	
May 10	10.02	+0.20	-0.001	+5.66	-2.97	+0.017	+8.98	0.00	-0.002	-6.57	+3.17	+0.007	
20	9.82	+0.68	-0.004	+2.69	-2.87	+0.017	+8.98	-0.33	-0.003	-3.40	+3.10	+0.007	
30	9.14	+1.13	-0.006	-0.18	-2.70	+0.016	+8.65	-0.65	-0.003	-0.30	+2.94	+0.007	
June 9	8.01	+1.55	-0.008	-2.88	-2.44	+0.014	+8.00	-0.93	-0.003	+2.64	+2.70	+0.006	
19	6.46	+1.93	-0.010	-5.32	-2.13	+0.012	+7.07	-1.21	-0.004	+5.34	+2.37	+0.005	
29	4.53	+2.24	-0.011	-7.45	-1.75	+0.009	+5.86	-1.44	-0.004	+7.71	+1.99	+0.004	
July 9	-2.29	+2.52	-0.011	-9.20	-1.33	+0.006	+4.42	-1.64	-0.004	+9.70	+1.55	+0.003	
19	+0.23	+2.73	-0.011	-10.53	-0.87	+0.002	+2.78	-1.81	-0.004	+11.25	+1.09	+0.002	
29	2.96	+2.88	-0.011	-11.40	-0.41	-0.002	+0.97	-1.92	-0.003	+12.34	+0.59	0.000	
Aug. 8	5.84	+2.97	-0.010	-11.81	+0.07	-0.007	-0.95	-2.00	-0.002	+12.93	+0.09	-0.002	
18	8.81	+2.99	-0.008	-11.74	+0.54	-0.011	-2.95	-2.03	-0.001	+13.02	-0.43	-0.003	
28	11.80	+2.97	-0.006	-11.20	+1.02	-0.016	-4.98	-2.03	0.000	+12.59	-0.93	-0.005	
Sept. 7	14.77	+2.88	-0.003	-10.18	+1.46	-0.020	-7.01	-1.96	+0.001	+11.66	-1.42	-0.007	
17	17.65	+2.74	0.000	-8.72	+1.88	-0.024	-8.97	-1.87	+0.002	+10.24	-1.89	-0.009	
27	20.39	+2.54	+0.003	-6.84	+2.28	-0.028	-10.84	-1.72	+0.003	+8.35	-2.33	-0.010	
Oct. 7	22.93	+2.29	+0.007	-4.56	+2.63	-0.032	-12.56	-1.53	+0.005	+6.02	-2.72	-0.011	
17	25.22	+1.97	+0.012	-1.93	+2.92	-0.035	-14.09	-1.29	+0.006	+3.30	-3.06	-0.013	
27	27.19	+1.63	+0.016	+0.99	+3.17	-0.038	-15.38	-1.03	+0.008	+0.24	-3.34	-0.014	
Nov. 6	28.82	+1.23	+0.019	+4.16	+3.35	-0.041	-16.41	-0.71	+0.009	-3.10	-3.55	-0.015	
16	30.05	+0.78	+0.023	+7.51	+3.43	-0.042	-17.12	-0.39	+0.011	-6.65	-3.67	-0.015	
26	30.83	+0.31	+0.027	+10.94	+3.44	-0.043	-17.51	-0.03	+0.011	-10.32	-3.69	-0.006	
Dec. 6	31.14	-0.16	+0.031	+14.38	+3.34	-0.043	-17.54	+0.32	+0.013	-14.01	-3.61	-0.016	
16	30.98	-0.65	+0.034	+17.72	+3.15	-0.043	-17.22	+0.68	+0.014	-17.62	-3.42	-0.016	
26	30.33	-1.10	+0.037	+20.87	+2.86	-0.042	-16.54	+1.00	+0.014	-21.04	-3.11	-0.015	
36	29.23		+0.039	+23.73		-0.040	-15.54		+0.015	-24.15		-0.015	
Add 1 day to the tabular dates in Jan. and Feb. of leap years.							Add 1 day to the tabular dates in Jan. and Feb. of leap years.						
Add to the Reduced Date							Add to the Reduced Date						
For Upper Culmination before							For Upper Culmination before						
after } May 21 { +1							after } Nov. 20 { +1						
For Lower Culmination before							For Lower Culmination before						
after } Nov. 22 { +1.5							after } May 21 { +0.5						

ε URSAE MINORIS.							64 CAMELOPARDALI, BODE.								
		Corr. of A.R., 1870.		Annual Variation.	Corr. of Dec., 1870.		Annual Variation.			Corr. of A.R., 1870.		Annual Variation.	Corr. of Dec., 1870.		Annual Variation.
		s.	s.	s.	"	"	"	s.	s.	s.	"	"	"	"	"
Jan.	0	— 9.31	+0.65	+0.004	— 8.03	— 3.29	—0.009	+15.36	—0.48	+0.009	+ 5.84	+3.10	—0.026		
	10	— 8.66	—0.92	+0.004	—11.32	— 2.98	—0.008	+14.88	—0.97	+0.013	+ 8.94	+2.85	—0.025		
	20	— 7.74	+1.18	—0.005	—14.30	— 2.54	—0.007	+13.91	—1.41	+0.016	+11.79	+2.51	—0.023		
	30	— 6.56	+1.37	+0.005	—16.84	— 2.02	—0.007	+12.50	—1.79	+0.018	+14.30	+2.06	—0.021		
Feb.	9	— 5.19	+1.51	+0.005	—18.86	— 1.43	—0.005	+10.71	—2.09	+0.020	+16.36	+1.54	—0.017		
	19	— 3.68	+1.61	+0.005	—20.29	— 0.79	—0.004	+ 8.62	—2.30	+0.021	+17.90	+0.98	—0.014		
March	1	— 2.07	+1.63	+0.005	—21.08	— 0.13	—0.003	+ 6.32	—2.41	+0.022	+18.88	+0.38	—0.010		
	11	— 0.44	+1.60	+0.005	—21.21	+ 0.53	—0.001	+ 3.91	—2.42	+0.022	+19.26	—0.24	—0.006		
	21	+ 1.16	+1.51	+0.004	—20.68	+ 1.14	0.000	+ 1.49	—2.31	+0.021	+19.02	—0.82	—0.001		
	31	+ 2.67	+1.36	+0.004	—19.54	+ 1.72	+0.001	— 0.82	—2.12	+0.020	+18.20	—1.37	+0.003		
April	10	+ 4.03	+1.17	+0.003	—17.82	+ 2.21	+0.003	— 2.94	—1.85	+0.018	+16.83	—1.85	+0.006		
	20	+ 5.20	+0.94	+0.003	—15.61	+ 2.61	+0.004	— 4.79	—1.50	+0.015	+14.98	—2.26	+0.010		
	30	+ 6.14	+0.69	+0.002	—13.00	+ 2.91	+0.005	— 6.29	—1.10	+0.013	+12.72	—2.58	+0.012		
May	10	+ 6.83	+0.42	+0.001	—10.09	+ 3.12	+0.005	— 7.39	—0.67	+0.010	+10.14	—2.81	+0.014		
	20	+ 7.25	+0.14	0.000	— 6.97	+ 3.21	+0.005	— 8.06	—0.21	+0.006	+ 7.33	—2.93	+0.016		
	30	+ 7.39	—0.14	0.000	— 3.76	+ 3.20	+0.006	— 8.27	+0.26	+0.003	+ 4.40	—2.98	+0.016		
June	9	+ 7.25	—0.43	—0.001	— 0.56	+ 3.11	+0.005	— 8.01	+0.71	0.000	+ 1.42	—2.92	+0.016		
	19	+ 6.82	—0.68	—0.001	+ 2.55	+ 2.92	+0.005	— 7.30	+1.15	—0.003	— 1.50	—2.79	+0.015		
	29	+ 6.14	—0.94	—0.002	+ 5.47	+ 2.66	+0.004	— 6.15	+1.55	—0.006	— 4.29	—2.58	+0.013		
July	9	+ 5.20	—1.15	—0.002	+ 8.13	+ 2.33	+0.003	— 4.60	+1.91	—0.009	— 6.87	—2.31	+0.010		
	19	+ 4.05	—1.36	—0.003	+10.46	+ 1.96	+0.002	— 2.69	+2.24	—0.011	— 9.18	—1.99	+0.007		
	29	+ 2.69	—1.51	—0.003	+12.42	+ 1.52	+0.001	— 0.45	+2.50	—0.013	—11.17	—1.62	+0.004		
Aug.	8	+ 1.18	—1.65	—0.003	+13.94	+ 1.06	—0.001	+ 2.05	+2.73	—0.014	—12.79	—1.22	—0.001		
	18	— 0.47	—1.74	—0.003	+15.00	+ 0.59	—0.002	+ 4.78	+2.89	—0.015	—14.01	—0.80	—0.005		
	28	— 2.21	—1.80	—0.003	+15.59	+ 0.08	—0.004	+ 7.67	+3.00	—0.015	—14.81	—0.35	—0.010		
Sept.	7	— 4.01	—1.81	—0.002	+15.67	— 0.43	—0.006	+10.67	+3.06	—0.015	—15.16	+0.10	—0.015		
	17	— 5.82	—1.79	—0.002	+15.24	— 0.92	—0.008	+13.73	+3.04	—0.014	—15.06	+0.57	—0.020		
	27	— 7.61	—1.72	—0.002	+14.32	— 1.42	—0.009	+16.77	+2.98	—0.013	—14.49	+1.01	—0.025		
Oct.	7	— 9.33	—1.61	—0.001	+12.90	— 1.89	—0.011	+19.75	+2.85	—0.012	—13.48	+1.46	—0.030		
	17	—10.94	—1.45	0.000	+11.01	— 2.32	—0.012	+22.60	+2.66	—0.009	—12.02	+1.87	—0.035		
	27	—12.39	—1.27	+0.001	+ 8.69	— 2.73	—0.014	+25.26	+2.41	—0.007	—10.15	+2.26	—0.039		
Nov.	6	—13.66	—1.03	+0.002	+ 5.96	— 3.06	—0.015	+27.67	+2.09	—0.004	— 7.89	+2.61	—0.043		
	16	—14.69	—0.77	+0.003	+ 2.90	— 3.33	—0.016	+29.76	+1.73	0.000	— 5.28	+2.88	—0.048		
	26	—15.46	—0.47	+0.004	— 0.43	— 3.51	—0.017	+31.49	+1.29	+0.003	— 2.40	+3.10	—0.050		
Dec.	6	—15.93	—0.17	+0.004	— 3.94	— 3.60	—0.018	+32.78	+0.84	+0.007	+ 0.70	+3.23	—0.052		
	16	—16.10	+0.15	+0.005	— 7.54	— 3.58	—0.018	+33.62	+0.33	+0.010	+ 3.93	+3.27	—0.053		
	26	—15.95	+0.46	+0.006	—11.12	— 3.44	—0.018	+33.95	—0.16	+0.014	+ 7.20	+3.20	—0.053		
	36	—15.49		+0.007	—14.56		—0.017	+33.79		+0.017	+10.40		—0.052		

Add 1 day to the tabular date in Jan. and Feb. of leap years.
Add to the Reduced Date
For Upper Culmination before } Dec. 6 { + 1
after } + 2
For Lower Culmination before } June 6 { + 0.5
after } + 1.5

Add 1 day to the tabular date in Jan. and Feb. of leap years.
Add to the Reduced Date
For Upper Culmination before } June 11 { + 1
after } + 2
For Lower Culmination before } Dec. 11 { + 1.5
after } + 2.5

51 CEPHEI HEVELII.							25 CAMELOPARDALI HEVELII.						
	Corr. of A.R., 1870.		Annual Variation.	Corr. Dec., 1870.		Annual Variation.		Corr. of A.R., 1870.		Annual Variation.	Corr. Dec., 1870.		Annual Variation.
	s.	s.	s.	"	"	"		s.	s.	s.	"	"	"
Jan. 0	+28.32	+0.61	-0.012	-0.96	+3.23	-0.045	+10.57	+0.48	-0.004	-3.25	+3.04	-0.019	
10	+28.93	-0.31	-0.002	+2.27	+3.19	-0.046	+11.05	+0.13	-0.002	-0.21	+3.07	-0.020	
20	+28.62	-1.20	+0.008	+5.46	+3.04	-0.045	+11.18	-0.22	-0.001	+2.86	+3.01	-0.020	
30	+27.42	-2.04	+0.018	+8.50	+2.78	-0.043	+10.96	-0.56	+0.001	+5.87	+2.83	-0.020	
Feb. 9	+25.38	-2.78	+0.027	+11.28	+2.40	-0.040	+10.40	-0.85	+0.003	+8.70	+2.58	-0.018	
19	+22.60	-3.40	+0.036	+13.68	+1.95	-0.035	+9.55	-1.13	+0.005	+11.28	+2.09	-0.016	
March 1	+19.20	-3.87	+0.043	+15.63	+1.41	-0.030	+8.42	-1.32	+0.006	+13.37	+1.66	-0.014	
11	+15.33	-4.16	+0.049	+17.04	+0.83	-0.024	+7.10	-1.48	+0.007	+15.03	+1.14	-0.012	
21	+11.17	-4.28	+0.053	+17.87	+0.23	-0.017	+5.62	-1.55	+0.008	+16.17	+0.56	-0.009	
31	+6.89	-4.22	+0.055	+18.10	-0.38	-0.010	+4.07	-1.57	+0.008	+16.73	-0.01	-0.006	
April 10	+2.67	-4.00	+0.055	+17.72	-0.96	-0.003	+2.50	-1.51	+0.009	+16.72	-0.59	-0.003	
20	-1.33	-3.62	+0.053	+16.76	-1.49	+0.003	+0.99	-1.40	+0.009	+16.13	-1.13	-0.001	
30	-4.95	-3.12	+0.049	+15.27	-1.97	+0.009	-0.41	-1.23	+0.008	+15.00	-1.62	+0.002	
May 10	-8.07	-2.51	+0.045	+13.30	-2.37	+0.014	-1.64	-1.02	+0.008	+13.38	-2.05	+0.004	
20	-10.58	-1.82	+0.038	+10.93	-2.68	+0.018	-2.66	-0.78	+0.007	+11.33	-2.41	+0.007	
30	-12.40	-1.07	+0.030	+8.25	-2.92	+0.022	-3.44	-0.50	+0.006	+8.92	-2.69	+0.008	
June 9	-13.47	-0.29	+0.022	+5.33	-3.06	+0.023	-3.94	-0.22	+0.004	+6.23	-2.89	+0.009	
19	-13.76	+0.49	+0.012	+2.27	-3.12	+0.024	-4.16	+0.07	+0.003	+3.34	-3.00	+0.010	
29	-13.27	+1.26	+0.002	-0.85	-3.10	+0.024	-4.09	+0.36	+0.001	+0.34	-3.04	+0.010	
July 9	-12.01	+1.99	-0.008	-3.95	-3.00	+0.022	-3.73	+0.64	0.000	-2.70	-3.01	+0.010	
19	-10.02	+2.69	-0.018	-6.95	-2.83	+0.018	-3.09	+0.90	-0.002	-5.71	-2.90	+0.009	
29	-7.33	+3.32	-0.027	-9.78	-2.60	+0.015	-2.19	+1.15	-0.004	-8.61	-2.73	+0.007	
Aug. 8	-4.01	+3.88	-0.036	-12.38	-2.32	+0.009	-1.04	+1.37	-0.005	-11.34	-2.50	+0.005	
18	-0.13	+4.36	-0.045	-14.70	-1.97	+0.003	+0.33	+1.56	-0.007	-13.84	-2.23	+0.003	
28	+4.23	+4.77	-0.053	-16.67	-1.60	-0.003	+1.89	+1.73	-0.009	-16.07	-1.90	0.000	
Sept. 7	+9.00	+5.07	-0.059	-18.27	-1.19	-0.011	+3.62	+1.87	-0.010	-17.97	-1.54	-0.003	
17	+14.07	+5.29	-0.064	-19.46	-0.74	-0.019	+5.49	+1.98	-0.011	-19.51	-1.43	-0.006	
27	+19.36	+5.39	-0.068	-20.20	-0.28	-0.027	+7.47	+2.04	-0.012	-20.64	-0.70	-0.009	
Oct. 7	+24.75	+5.40	-0.071	-20.48	+0.19	-0.036	+9.51	+2.07	-0.013	-21.34	-0.25	-0.013	
17	+30.15	+5.27	-0.072	-20.29	+0.69	-0.044	+11.58	+2.06	-0.013	-21.59	+0.22	-0.017	
27	+35.42	+5.04	-0.072	-19.60	+1.16	-0.053	+13.64	+2.00	-0.013	-21.37	+0.70	-0.020	
Nov. 6	+40.46	+4.67	-0.070	-18.44	+1.64	-0.060	+15.64	+1.90	-0.013	-20.67	+1.18	-0.024	
16	+45.13	+4.19	-0.066	-16.80	+2.07	-0.068	+17.54	+1.74	-0.013	-19.49	+1.64	-0.027	
26	+49.32	+3.58	-0.061	-14.73	+2.46	-0.074	+19.28	+1.55	-0.012	-17.85	+2.05	-0.030	
Dec. 6	+52.90	+2.86	-0.054	-12.27	+2.79	-0.080	+20.83	+1.30	-0.012	-15.80	+2.43	-0.033	
16	+55.76	+2.07	-0.046	-9.48	+3.04	-0.084	+22.13	+1.01	-0.011	-13.37	+2.73	-0.035	
26	+57.83	+1.18	-0.038	-6.44	+3.18	-0.088	+23.14	+0.70	-0.010	-10.64	+2.95	-0.036	
36	+59.01		-0.028	-3.26		-0.089	+23.84		-0.008	-7.69		-0.038	

Add 1 day to the tabular dates in Jan. and Feb. of leap years.

Add to the Reduced Date

For Upper Culmination before } July 1 { +1

after } Jan. 0 { +2

For Lower Culmination after Jan. 0 +1.5

Add 1 day to the tabular dates in Jan. and Feb. of leap years.

Add to the Reduced Date

For Upper Culmination before } July 8 { +1

after } Jan. 6 { +2

For Lower Culmination before } Jan. 6 { +0.5

after } Jan. 6 { +1.5

4 URSÆ MINORIS, BODE.							156 CAMELOPARDALI, BODE.									
		Corr. of A.R., 1870.		Annual Variation.	Corr. of Dec., 1870.		Annual Variation.			Corr. of A.R., 1870.		Annual Variation.	Corr. of Dec., 1870.		Annual Variation.	
		s.	s.	s.	"	"	"			s.	s.	s.	"	"	"	
Jan.	0	+	76.31	+	3.89	-0.251	4.80	+	13.29	+	1.00	-0.011	6.81	+	2.90	-0.021
	10	+	80.20	+	1.37	-0.192	1.66	+	14.29	+	0.54	-0.009	3.91	+	3.07	-0.023
	20	+	81.57	+	1.17	-0.127	1.57	+	14.83	+	0.09	-0.007	0.84	+	3.11	-0.024
	30	+	80.40	+	3.62	-0.057	4.77	+	14.92	+	0.39	-0.004	2.27	+	3.04	-0.024
Feb.	9	+	76.78	+	5.90	+0.015	7.81	+	14.53	+	0.79	-0.002	5.31	+	2.84	-0.023
	19	+	70.88	+	7.91	+0.086	10.60	+	13.74	+	1.19	+0.001	8.15	+	2.54	-0.022
March	1	+	62.97	+	9.55	+0.152	13.00	+	12.55	+	1.52	+0.003	10.69	+	2.14	-0.020
	11	+	53.42	+	10.78	+0.211	14.94	+	11.03	+	1.79	+0.006	12.83	+	1.65	-0.017
	21	+	42.64	+	11.55	+0.262	16.34	+	9.24	+	1.96	+0.008	14.48	+	1.12	-0.014
	31	+	31.09	+	11.86	+0.302	17.16	+	7.28	+	2.05	+0.010	15.60	+	0.53	-0.011
April	10	+	19.23	+	11.69	+0.330	17.37	+	5.23	+	2.05	+0.011	16.13	+	0.04	-0.007
	20	+	7.54	+	11.08	+0.344	16.98	+	3.18	+	1.99	+0.012	16.09	+	0.63	-0.004
	30	+	3.54	+	10.09	+0.347	16.00	+	1.19	+	1.83	+0.012	15.46	+	1.17	-0.001
May	10	+	13.63	+	8.74	+0.336	14.48	+	0.64	+	1.62	+0.012	14.29	+	1.67	+0.002
	20	+	22.37	+	7.11	+0.310	12.49	+	2.26	+	1.35	+0.011	12.62	+	2.12	+0.005
	30	+	29.48	+	5.26	+0.274	10.08	+	3.61	+	1.04	+0.011	10.50	+	2.48	+0.008
June	9	+	34.74	+	3.28	+0.227	7.34	+	4.65	+	0.70	+0.009	8.02	+	2.77	+0.009
	19	+	38.02	+	1.19	+0.171	4.35	+	5.35	+	0.34	+0.007	5.25	+	2.99	+0.011
	29	+	39.21	+	0.91	+0.108	1.19	+	5.69	+	0.03	+0.005	2.26	+	3.13	+0.012
July	9	+	38.30	+	3.00	+0.039	2.05	+	5.66	+	0.41	+0.002	0.87	+	3.19	+0.012
	19	+	35.30	+	5.02	-0.035	5.30	+	5.25	+	0.75	0.000	4.06	+	3.18	+0.011
	29	+	30.28	+	6.91	-0.111	8.48	+	4.50	+	1.10	-0.003	7.24	+	3.09	+0.010
Aug.	8	+	23.37	+	8.67	-0.188	11.51	+	3.40	+	1.43	-0.006	10.33	+	2.94	+0.009
	18	+	14.70	+	10.25	-0.264	14.33	+	1.97	+	1.71	-0.009	13.27	+	2.73	+0.007
	28	+	4.45	+	11.63	-0.337	16.90	+	0.26	+	1.98	-0.012	16.00	+	2.48	+0.004
Sept.	7	+	7.18	+	12.79	-0.407	19.14	+	1.72	+	2.21	-0.015	18.48	+	2.14	+0.001
	17	+	19.97	+	13.69	-0.472	21.01	+	3.93	+	2.40	-0.017	20.62	+	1.79	+0.003
	27	+	33.66	+	14.34	-0.530	22.48	+	6.33	+	2.54	-0.019	22.41	+	1.37	+0.006
Oct.	7	+	48.00	+	14.69	-0.579	23.50	+	8.87	+	2.63	-0.022	23.78	+	0.93	-0.010
	17	+	62.69	+	14.72	-0.619	24.04	+	11.50	+	2.69	-0.024	24.71	+	0.45	-0.015
	27	+	77.41	+	14.43	-0.650	24.07	+	14.19	+	2.66	-0.025	25.16	+	0.05	-0.019
Nov.	6	+	91.84	+	13.78	-0.668	23.60	+	16.85	+	2.60	-0.026	25.11	+	0.57	-0.023
	16	+	105.62	+	12.77	-0.674	22.60	+	19.45	+	2.47	-0.027	24.54	+	1.08	-0.027
	26	+	118.39	+	11.41	-0.668	21.11	+	21.92	+	2.24	-0.027	23.46	+	1.57	-0.031
Dec.	6	+	129.80	+	9.72	-0.649	19.14	+	24.16	+	1.98	-0.026	21.89	+	2.02	-0.034
	16	+	139.52	+	7.69	-0.617	16.75	+	26.14	+	1.65	-0.026	19.87	+	2.43	-0.038
	26	+	147.21	+	5.45	-0.575	14.01	+	27.79	+	1.25	-0.024	17.44	+	2.74	-0.040
	36	+	152.66	+		-0.524	11.00	+	29.04	+		-0.023	14.70	+		-0.042
Add 1 day to the tabular date in Jan. and Feb. of leap years. Add to the Reduced Date For Upper Culmination before } July 13 { + 1 after } + 2 For Lower Culmination before } Jan. 11 { + 0.5 after } + 1.5							Add 1 day to the tabular date in Jan. and Feb. of leap years. Add to the Reduced Date For Upper Culmination before } July 18 { + 1 after } + 2 For Lower Culmination before } Jan. 17 { + 0.5 after } + 1.5									

λ URSÆ MINORIS, BODE.

		Corr. of A.R., 1870.		Annual Variation.	Corr. of Dec., 1870.		Annual Variation.
		s.	s.	s.	"	"	"
Jan.	0	— 67.61	— 4.71	— 0.269	+ 7.27	— 3.04	— 0.082
	10	— 72.32	— 2.51	— 0.243	+ 4.23	— 3.22	— 0.088
	20	— 74.83	— 0.19	— 0.201	+ 1.01	— 3.26	— 0.091
	30	— 75.02	+ 2.11	— 0.153	— 2.25	— 3.19	— 0.092
Feb.	9	— 72.91	+ 4.31	— 0.100	— 5.44	— 2.98	— 0.089
	19	— 68.60	+ 6.29	— 0.044	— 8.42	— 2.67	— 0.084
March	1	— 62.31	+ 7.99	+ 0.012	— 11.09	— 2.25	— 0.076
	11	— 54.32	+ 9.36	+ 0.065	— 13.34	— 1.76	— 0.067
	21	— 44.96	+ 10.32	+ 0.115	— 15.10	— 1.18	— 0.055
	31	— 34.64	+ 10.89	+ 0.158	— 16.28	— 0.58	— 0.043
April	10	— 23.75	+ 11.00	+ 0.194	— 16.86	+ 0.03	— 0.030
	20	— 12.75	+ 10.73	+ 0.221	— 16.83	+ 0.63	— 0.016
	30	— 2.02	+ 10.02	+ 0.238	— 16.20	+ 1.22	— 0.003
May	10	+ 8.00	+ 9.11	+ 0.244	— 14.98	+ 1.74	+ 0.009
	20	+ 17.11	+ 7.77	+ 0.240	— 13.24	+ 2.20	+ 0.021
	30	+ 24.88	+ 6.23	+ 0.225	— 11.04	+ 2.60	+ 0.029
June	9	+ 31.11	+ 4.53	+ 0.201	— 8.44	+ 2.91	+ 0.036
	19	+ 35.64	+ 2.70	+ 0.168	— 5.53	+ 3.14	+ 0.042
	29	+ 38.34	+ 0.79	+ 0.126	— 2.39	+ 3.30	+ 0.045
July	9	+ 39.13	— 1.12	+ 0.078	+ 0.91	+ 3.37	+ 0.046
	19	+ 38.01	— 3.02	+ 0.025	+ 4.28	+ 3.35	+ 0.044
	29	+ 34.99	— 4.84	— 0.034	+ 7.63	+ 3.27	+ 0.040
Aug.	8	+ 30.15	— 6.55	— 0.096	+ 10.90	+ 3.12	+ 0.034
	18	+ 23.60	— 8.15	— 0.160	+ 14.02	+ 2.90	+ 0.026
	28	+ 15.45	— 9.57	— 0.224	+ 16.92	+ 2.61	+ 0.016
Sept.	7	+ 5.88	— 10.81	— 0.287	+ 19.53	+ 2.28	+ 0.005
	17	— 4.93	— 11.82	— 0.349	+ 21.81	+ 1.89	— 0.009
	27	— 16.75	— 12.62	— 0.407	+ 23.70	+ 1.46	— 0.023
Oct.	7	— 29.37	— 13.13	— 0.460	+ 25.16	+ 0.98	— 0.039
	17	— 42.50	— 13.38	— 0.508	+ 26.14	+ 0.47	— 0.055
	27	— 55.88	— 13.31	— 0.548	+ 26.61	— 0.07	— 0.071
Nov.	6	— 69.19	— 12.91	— 0.581	+ 26.54	— 0.59	— 0.087
	16	— 82.10	— 12.19	— 0.604	+ 25.95	— 1.15	— 0.103
	26	— 94.29	— 11.12	— 0.616	+ 24.80	— 1.66	— 0.118
Dec.	6	— 105.41	— 9.72	— 0.619	+ 23.14	— 2.13	— 0.131
	16	— 115.13	— 8.01	— 0.611	+ 21.01	— 2.56	— 0.143
	26	— 123.14	— 6.07	— 0.592	+ 18.45	— 2.89	— 0.153
	36	— 129.21		— 0.566	+ 15.56		— 0.160

Add 1 day to the tabular date in Jan. and Feb. of leap years.

Add to the Reduced Date

For Upper Culmination before } Jan. 19 { 0
after } + 1
For Lower Culmination before } July 20 { + 0.5
after } + 1.5

74 DRACONIS.

		Corr. of A.R., 1870.		Annual Variation.	Corr. of Dec., 1870.		Annual Variation.
		s.	s.	s.	"	"	"
		— 7.13	— 0.67	— 0.004	+ 10.34	— 2.89	— 0.004
		— 7.80	— 0.43	— 0.004	+ 7.45	— 3.16	— 0.004
		— 8.23	— 0.18	— 0.004	+ 4.29	— 3.31	— 0.005
		— 8.41	+ 0.08	— 0.004	+ 0.98	— 3.33	— 0.005
		— 8.33	+ 0.33	— 0.003	— 2.35	— 3.22	— 0.005
		— 8.00	+ 0.58	— 0.003	— 5.57	— 2.99	— 0.004
		— 7.42	+ 0.80	— 0.003	— 8.56	— 2.63	— 0.004
		— 6.62	+ 0.99	— 0.002	— 11.19	— 2.19	— 0.004
		— 5.63	+ 1.13	— 0.002	— 13.38	— 1.65	— 0.003
		— 4.50	+ 1.26	— 0.001	— 15.03	— 1.06	— 0.003
		— 3.24	+ 1.30	0.000	— 16.09	— 0.44	— 0.002
		— 1.94	+ 1.35	0.000	— 16.53	+ 0.20	— 0.001
		— 0.59	+ 1.31	+ 0.001	— 16.33	+ 0.80	— 0.001
		+ 0.72	+ 1.25	+ 0.001	— 15.53	+ 1.39	0.000
		+ 1.97	+ 1.14	+ 0.002	— 14.14	+ 1.93	0.000
		+ 3.11	+ 1.00	+ 0.002	— 12.21	+ 2.40	+ 0.001
		+ 4.11	+ 0.83	+ 0.002	— 9.81	+ 2.81	+ 0.002
		+ 4.94	+ 0.65	+ 0.002	— 7.00	+ 3.12	+ 0.002
		+ 5.59	+ 0.43	+ 0.002	— 3.88	+ 3.36	+ 0.002
		+ 6.02	+ 0.23	+ 0.002	— 0.52	+ 3.52	+ 0.002
		+ 6.25	— 0.01	+ 0.002	+ 3.00	+ 3.59	+ 0.002
		+ 6.24	— 0.22	+ 0.001	+ 6.59	+ 3.59	+ 0.002
		+ 6.02	— 0.43	+ 0.001	+ 10.18	+ 3.50	+ 0.002
		+ 5.59	— 0.65	0.000	+ 13.68	+ 3.34	+ 0.002
		+ 4.94	— 0.82	0.000	+ 17.02	+ 3.12	+ 0.001
		+ 4.12	— 1.00	— 0.001	+ 20.14	+ 2.83	0.000
		+ 3.12	— 1.15	— 0.001	+ 22.97	+ 2.47	0.000
		+ 1.97	— 1.27	— 0.002	+ 25.44	+ 2.05	— 0.001
		+ 0.70	— 1.36	— 0.003	+ 27.49	+ 1.59	— 0.002
		— 0.66	— 1.42	— 0.004	+ 29.08	+ 1.08	— 0.002
		— 2.08	— 1.44	— 0.004	+ 30.16	+ 0.53	— 0.003
		— 3.52	— 1.44	— 0.005	+ 30.69	— 0.03	— 0.004
		— 4.96	— 1.38	— 0.005	+ 30.66	— 0.63	— 0.005
		— 6.34	— 1.30	— 0.006	+ 30.03	— 1.19	— 0.005
		— 7.64	— 1.16	— 0.007	+ 28.84	— 1.74	— 0.006
		— 8.80	— 1.00	— 0.007	+ 27.10	— 2.24	— 0.007
		— 9.80	— 0.81	— 0.007	+ 24.86	— 2.68	— 0.007
		— 10.61		— 0.007	+ 22.18		— 0.008

Add 1 day to the tabular date in Jan. and Feb. of leap years.

Add to the Reduced Date

For Upper Culmination before } Jan. 29 { 0
after } + 1
For Lower Culmination before } July 31 { + 0.5
after } + 1.5

1 DRACONIS HEVELII.							119 CEPHEI, BODE.								
Corr. of A.R., 1870.			Annual Variation.	Corr. Dec., 1870.			Annual Variation.	Corr. of A.R., 1870.			Annual Variation.	Corr. Dec., 1870.			Annual Variation.
s.			s.	"			"	s.			s.	"			"
Jan.	0	+ 7.18	+ 1.24	-0.008	-13.84	+ 2.08	-0.010	- 9.03	-1.37	-0.014	+13.80	-2.40	-0.005		
	10	+ 8.42	+ 0.98	-0.008	-11.76	+ 2.48	-0.011	-10.40	-1.05	-0.014	+11.40	-2.79	-0.006		
	20	+ 9.40	+ 0.69	-0.008	- 9.28	+ 2.78	-0.013	-11.45	-0.70	-0.014	+ 8.61	-3.08	-0.006		
	30	+10.09	+ 0.38	-0.007	- 6.50	+ 2.98	-0.014	-12.15	-0.32	-0.013	+ 5.53	-3.24	-0.006		
Feb.	9	+10.47	+ 0.07	-0.006	- 3.52	+ 3.06	-0.015	-12.47	+ 0.06	-0.012	+ 2.29	-3.27	-0.006		
	19	+10.54	-0.25	-0.005	- 0.46	+ 3.00	-0.015	-12.41	+ 0.44	-0.011	- 0.98	-3.17	-0.007		
March	1	+10.29	-0.54	-0.004	+ 2.54	+ 2.83	-0.014	-11.97	-0.80	-0.010	- 4.15	-2.95	-0.006		
	11	+ 9.75	-0.80	-0.003	+ 5.37	+ 2.55	-0.013	-11.17	+ 1.13	-0.008	- 7.10	-2.61	-0.006		
	21	+ 8.95	-1.01	-0.001	+ 7.92	+ 2.17	-0.012	-10.04	+ 1.41	-0.006	- 9.71	-2.18	-0.005		
	31	+ 7.94	-1.19	0.000	+10.09	+ 1.70	-0.011	- 8.63	+ 1.65	-0.003	-11.89	-1.66	-0.005		
April	10	+ 6.75	-1.29	+0.001	+11.79	+ 1.19	-0.009	- 6.98	+ 1.81	-0.001	-13.55	-1.09	-0.004		
	20	+ 5.46	-1.36	+0.002	+12.98	+ 0.63	-0.007	- 5.17	+ 1.91	+0.001	-14.64	-0.48	-0.003		
	30	+ 4.10	-1.38	+0.003	+13.61	+ 0.06	-0.005	- 3.26	+ 1.94	+0.003	-15.12	+ 0.14	-0.002		
May	10	+ 2.72	-1.32	+0.004	+13.67	-0.50	-0.003	- 1.32	+ 1.92	+0.005	-14.98	+ 0.74	-0.001		
	20	+ 1.40	-1.24	+0.004	+13.17	-1.05	-0.001	+ 0.60	+ 1.82	+0.007	-14.24	+ 1.31	0.000		
	30	+ 0.16	-1.11	+0.004	+12.12	-1.56	+0.001	+ 2.42	+ 1.68	+0.008	-12.93	+ 1.86	+0.001		
June	9	- 0.95	-0.94	+0.005	+10.56	-2.02	+0.003	+ 4.10	+ 1.51	+0.009	-11.07	+ 2.32	+0.002		
	19	- 1.89	-0.76	+0.004	+ 8.54	-2.42	+0.004	+ 5.59	+ 1.24	+0.009	- 8.75	+ 2.74	+0.002		
	29	- 2.65	-0.55	+0.004	+ 6.12	-2.75	+0.006	+ 6.83	+ 0.98	+0.009	- 6.01	+ 3.08	+0.003		
July	9	- 3.20	-0.33	+0.003	+ 3.37	-3.03	+0.007	+ 7.81	+ 0.69	+0.009	- 2.93	+ 3.34	+0.003		
	19	- 3.53	-0.10	+0.003	+ 0.34	-3.22	+0.008	+ 8.50	+ 0.38	+0.009	+ 0.41	+ 3.53	+0.003		
	29	- 3.63	+ 0.13	+0.002	- 2.88	-3.36	+0.008	+ 8.88	+ 0.07	+0.008	+ 3.94	+ 3.63	+0.004		
Aug.	8	- 3.50	+ 0.36	+0.001	- 6.24	-3.41	+0.008	+ 8.95	-0.26	+0.007	+ 7.57	+ 3.66	+0.003		
	18	- 3.14	+ 0.59	-0.001	- 9.65	-3.41	+0.008	+ 8.69	-0.55	+0.005	+11.23	+ 3.61	+0.003		
	28	- 2.55	+ 0.81	-0.002	-13.06	-3.32	+0.007	+ 8.14	-0.86	+0.003	+14.84	+ 3.49	+0.003		
Sept.	7	- 1.74	+ 1.01	-0.003	-16.38	-3.17	+0.006	+ 7.28	-1.13	+0.001	+18.33	+ 3.29	+0.002		
	17	- 0.73	+ 1.21	-0.005	-19.55	-2.96	+0.005	+ 6.15	-1.39	-0.001	+21.62	+ 3.02	+0.001		
	27	+ 0.48	+ 1.38	-0.007	-22.51	-2.68	+0.003	+ 4.76	-1.60	-0.003	+24.64	+ 2.68	+0.001		
Oct.	7	+ 1.86	+ 1.53	-0.008	-25.19	-2.34	+0.001	+ 3.16	-1.80	-0.006	+27.32	+ 2.29	0.000		
	17	+ 3.39	+ 1.65	-0.009	-27.53	-1.93	-0.001	+ 1.36	-1.95	-0.008	+29.61	+ 1.82	-0.001		
	27	+ 5.04	+ 1.74	-0.011	-29.46	-1.47	-0.003	- 0.59	-2.05	-0.011	+31.43	+ 1.31	-0.002		
Nov.	6	+ 6.78	+ 1.81	-0.012	-30.93	-0.96	-0.005	- 2.64	-2.11	-0.013	+32.74	+ 0.76	-0.003		
	16	+ 8.59	+ 1.82	-0.013	-31.89	-0.42	-0.008	- 4.75	-2.11	-0.015	+33.50	+ 0.17	-0.004		
	26	+10.41	+ 1.78	-0.015	-32.31	+ 0.14	-0.010	- 6.86	-2.06	-0.018	+33.67	-0.43	-0.005		
Dec.	6	+12.19	+ 1.70	-0.015	-32.17	+ 0.72	-0.013	- 8.92	-1.94	-0.019	+33.24	-1.03	-0.006		
	16	+13.89	+ 1.56	-0.016	-31.45	+ 1.26	-0.015	-10.86	-1.77	-0.021	+32.21	-1.59	-0.008		
	26	+15.45	+ 1.37	-0.016	-30.19	+ 1.79	-0.017	-12.63	-1.53	-0.022	+30.62	-2.12	-0.008		
	36	+16.82		-0.016	-28.40		-0.019	-14.16		-0.022	+28.50		-0.009		
Add 1 day to the tabular dates in Jan. and Feb. of leap years. Add to the Reduced Date For Upper Culmination before } Aug. 11 { + 1 after } + 2 For Lower Culmination before } Feb. 9 { + 0.5 after } + 1.5							Add 1 day to the tabular dates in Jan. and Feb. of leap years. Add to the Reduced Date For Upper Culmination before } Feb. 11 { + 0 after } + 1 For Lower Culmination before } Aug. 12 { + 0.5 after } + 1.5								

30 CAMELOPARDALI HEVELII.							34 CEPHEI HEVELII.								
Corr. of A.R., 1870.			Annual Variation.	Corr. Dec., 1870.			Annual Variation.	Corr. of A.R., 1870.			Annual Variation.	Corr. Dec., 1870.			Annual Variation.
		s.	s.		"	"		s.	s.	s.	"	"	"	"	
Jan.	0	+ 6.40	+1.73	-0.007	-17.10	+1.47	-0.007	- 4.50	-1.45	-0.006	+18.11	-1.42	0.000		
	10	+ 8.13	+1.49	-0.008	-15.63	+1.98	-0.008	- 5.95	-1.28	-0.007	+16.69	-1.96	0.000		
	20	+ 9.62	+1.20	-0.008	-13.65	+2.43	-0.010	- 7.23	-1.07	-0.008	+14.73	-2.43	+0.001		
	30	+10.82	+0.86	-0.008	-11.22	+2.77	-0.011	- 8.30	-0.80	-0.008	+12.30	-2.80	+0.001		
Feb.	9	+11.68	+0.51	-0.008	- 8.45	+2.99	-0.012	- 9.10	-0.52	-0.009	+ 9.50	-3.06	+0.001		
	19	+12.19	+0.13	-0.008	- 5.46	+3.09	-0.013	- 9.62	-0.21	-0.009	+ 6.44	-3.18	+0.001		
March	1	+12.32	-0.23	-0.008	- 2.37	+3.07	-0.013	- 9.83	+0.11	-0.008	+ 3.26	-3.19	+0.001		
	11	+12.09	-0.57	-0.007	+ 0.70	+2.92	-0.013	- 9.72	+0.42	-0.008	+ 0.07	-3.06	+0.001		
	21	+11.52	-0.88	-0.006	+ 3.62	+2.65	-0.012	- 9.30	+0.71	-0.007	+ 2.99	-2.81	+0.001		
	31	+10.64	-1.15	-0.005	+ 6.27	+2.29	-0.011	- 8.59	+0.99	-0.006	- 5.80	-2.46	0.000		
April	10	+ 9.49	-1.36	-0.004	+ 8.56	+1.85	-0.010	- 7.60	+1.22	-0.005	- 8.26	-2.01	0.000		
	20	+ 8.13	-1.51	-0.003	+10.41	+1.33	-0.008	- 6.38	+1.40	-0.004	-10.27	-1.49	0.000		
	30	+ 6.62	-1.61	-0.002	+11.74	+0.78	-0.007	- 4.98	+1.54	-0.002	-11.76	-0.93	0.000		
May	10	+ 5.01	-1.63	-0.001	+12.52	+0.22	-0.005	- 3.44	+1.63	-0.001	-12.69	-0.34	0.000		
	20	+ 3.38	-1.62	0.000	+12.74	-0.36	-0.003	- 1.81	+1.66	0.000	-13.03	+0.26	0.000		
	30	+ 1.76	-1.54	0.000	+12.38	-0.92	-0.001	- 0.15	+1.65	+0.002	-12.77	+0.85	0.000		
June	9	+ 0.22	-1.42	+0.001	+11.46	-1.45	-0.001	+ 1.50	+1.57	+0.003	-11.92	+1.41	0.000		
	19	- 1.20	-1.25	+0.002	+10.01	-1.93	+0.002	+ 3.07	+1.47	+0.004	-10.51	+1.93	0.000		
	29	- 2.45	-1.07	+0.002	+ 8.08	-2.37	+0.004	+ 4.54	+1.33	+0.005	- 8.58	+2.41	0.000		
July	9	- 3.52	-0.84	+0.002	+ 5.71	-2.75	+0.005	+ 5.87	+1.14	+0.006	- 6.17	+2.81	0.000		
	19	- 4.36	-0.60	+0.002	+ 2.96	-3.06	+0.006	+ 7.01	+0.94	+0.006	- 3.36	+3.16	-0.001		
	29	- 4.96	-0.35	+0.002	- 0.10	-3.31	+0.007	+ 7.95	+0.71	+0.007	- 0.20	+3.43	-0.001		
Aug.	8	- 5.31	-0.09	+0.001	- 3.41	-3.48	+0.008	+ 8.66	+0.48	+0.007	+ 3.23	+3.64	-0.001		
	18	- 5.40	+0.19	+0.001	- 6.89	-3.59	+0.008	+ 9.14	+0.22	+0.007	+ 6.87	+3.75	-0.001		
	28	- 5.21	+0.44	0.000	-10.48	-3.62	+0.008	+ 9.36	-0.02	+0.006	+10.62	+3.80	-0.001		
Sept.	7	- 4.77	+0.72	-0.001	-14.10	-3.58	+0.008	+ 9.34	-0.27	+0.006	+14.42	+3.78	-0.001		
	17	- 4.05	+0.97	-0.002	-17.68	-3.47	+0.007	+ 9.07	-0.52	+0.005	+18.20	+3.66	-0.001		
	27	- 3.08	+1.21	-0.003	-21.15	-3.28	+0.006	+ 8.55	-0.75	+0.004	+21.86	+3.47	-0.001		
Oct.	7	- 1.87	+1.44	-0.005	-24.43	-3.02	+0.005	+ 7.80	-0.96	+0.003	+25.33	+3.21	-0.001		
	17	- 0.43	+1.65	-0.006	-27.45	-2.67	+0.004	+ 6.84	-1.16	+0.002	+28.54	+2.86	-0.001		
	27	+ 1.22	+1.82	-0.008	-30.12	-2.27	+0.002	+ 5.68	-1.33	+0.001	+31.40	+2.44	0.000		
Nov.	6	+ 3.04	+1.96	-0.009	-32.39	-1.80	0.000	+ 4.35	-1.47	0.000	+33.84	+1.96	0.000		
	16	+ 5.00	+2.05	-0.011	-34.19	-1.27	-0.002	+ 2.88	-1.57	-0.002	+35.80	+1.42	0.000		
	26	+ 7.05	+2.09	-0.012	-35.46	-0.69	-0.006	+ 1.31	-1.63	-0.004	+37.22	+0.82	0.000		
Dec.	6	+ 9.14	+2.07	-0.014	-36.15	-0.09	-0.006	- 0.32	-1.65	-0.005	+38.04	+0.21	0.000		
	16	+11.21	+2.00	-0.015	-36.24	+0.52	-0.008	- 1.97	-1.62	-0.006	+38.25	-0.43	0.000		
	26	+13.21	+1.85	-0.016	-35.72	+1.11	-0.010	- 3.59	-1.53	-0.007	+37.82	-1.05	0.000		
	36	+15.06		-0.017	-34.61		-0.012	- 5.12		-0.008	+36.77		0.000		

Add 1 day to the tabular date in Jan. and Feb. of leap years.
Add to the Reduced Date
For Upper Culmination before } Aug. 25 { + 1
after } + 2
For Lower Culmination before } Feb. 24 { + 0.5
after } + 1.5

Add 1 day to the tabular date in Jan. and Feb. of leap years.
Add to the Reduced Date
For Upper Culmination before } March 4 { 0
after } + 1
For Lower Culmination before } Sept. 3 { + 0.5
after } + 1.5

Add 1 day to the tabular date in Jan. and Feb. of leap years.

Add to the Reduced Date

For Upper Culmination	before	} Mar. 14 {	0
	after		+ 1
For Lower Culmination	before	} Sept. 13 {	+ 0.5
	after		+ 1.5

309 CEPHEI BODE.

		Corr. of A.R., 1870.		Annual Variation.	Corr. Dec., 1870.		Annual Variation.
		s.	s.	s.	"	"	"
Jan.	0	— 3.18	— 3.03	— 0.001	+ 20.07	— 0.43	+ 0.001
	10	— 6.21	— 2.87	— 0.005	+ 19.64	— 1.06	+ 0.002
	20	— 9.08	— 2.60	— 0.009	+ 18.58	— 1.65	+ 0.002
	30	— 11.68	— 2.24	— 0.013	+ 16.93	— 2.16	+ 0.003
Feb.	9	— 13.92	— 1.79	— 0.017	+ 14.77	— 2.58	+ 0.004
	19	— 15.71	— 1.27	— 0.020	+ 12.19	— 2.90	+ 0.004
March	1	— 16.98	— 0.70	— 0.023	+ 9.29	— 3.09	+ 0.004
	11	— 17.68	— 0.11	— 0.024	+ 6.20	— 3.15	+ 0.004
	21	— 17.79	+ 0.47	— 0.025	+ 3.05	— 3.09	+ 0.004
	31	— 17.32	+ 1.05	— 0.025	— 0.04	— 2.91	+ 0.004
April	10	— 16.27	+ 1.57	— 0.024	— 2.95	— 2.61	+ 0.004
	20	— 14.70	+ 2.04	— 0.022	— 5.56	— 2.23	+ 0.003
	30	— 12.66	+ 2.42	— 0.020	— 7.79	— 1.76	+ 0.003
May	10	— 10.24	+ 2.72	— 0.017	— 9.55	— 1.24	+ 0.002
	20	— 7.52	+ 2.93	— 0.014	— 10.79	— 0.69	+ 0.002
	30	— 4.59	+ 3.06	— 0.010	— 11.48	— 0.11	+ 0.001
June	9	— 1.53	+ 3.08	— 0.006	— 11.59	+ 0.47	+ 0.001
	19	+ 1.55	+ 3.03	— 0.002	— 11.12	+ 1.03	0.000
	29	+ 4.58	+ 2.89	+ 0.003	— 10.09	+ 1.57	— 0.001
July	9	+ 7.47	+ 2.69	+ 0.007	— 8.52	+ 2.07	— 0.002
	19	+ 10.16	+ 2.42	+ 0.011	— 6.45	+ 2.51	— 0.002
	29	+ 12.58	+ 2.10	+ 0.014	— 3.94	+ 2.91	— 0.003
Aug.	8	+ 14.68	+ 1.74	+ 0.017	— 1.03	+ 3.23	— 0.003
	18	+ 16.42	+ 1.34	+ 0.020	+ 2.20	+ 3.50	— 0.004
	28	+ 17.76	+ 0.91	+ 0.023	+ 5.70	+ 3.69	— 0.004
Sept.	7	+ 18.67	+ 0.46	+ 0.025	+ 9.39	+ 3.81	— 0.004
	17	+ 19.13	+ 0.01	+ 0.026	+ 13.20	+ 3.85	— 0.004
	27	+ 19.14	— 0.44	+ 0.026	+ 17.05	+ 3.81	— 0.004
Oct.	7	+ 18.70	— 0.90	+ 0.026	+ 20.86	+ 3.68	— 0.004
	17	+ 17.80	— 1.35	+ 0.026	+ 24.54	+ 3.48	— 0.004
	27	+ 16.45	— 1.75	+ 0.024	+ 28.02	+ 3.18	— 0.003
Nov.	6	+ 14.70	— 2.14	+ 0.022	+ 31.20	+ 2.81	— 0.003
	16	+ 12.56	— 2.48	+ 0.020	+ 34.01	+ 2.35	— 0.002
	26	+ 10.08	— 2.76	+ 0.016	+ 36.36	+ 1.82	— 0.002
Dec.	6	+ 7.32	— 2.95	+ 0.013	+ 38.18	+ 1.25	— 0.001
	16	+ 4.37	— 3.06	+ 0.009	+ 39.43	+ 0.61	0.000
	26	+ 1.31	— 3.08	+ 0.005	+ 40.04	— 0.02	+ 0.001
	36	— 1.77		0.000	+ 40.02		+ 0.001

Add 1 day to the tabular date in Jan. and Feb. of leap years.
Add to the Reduced Date
For Upper Culmination before } Mar. 21 { 0
after } { + 1
For Lower Culmination before } Sept. 19 { + 0.5
after } { + 1.5

TABLE FOR THE ARGUMENT OF THE TERMS DEPENDING
ON THE MOON'S LONGITUDE.

1862.	1863.	1864.	1865.
Jan. — 7.36	Jan. — 3.75	Jan. — 0.14	Jan. —10.23
6.34	9.95	13.56	3.47
20.04	23.65	27.26	17.17
Feb. 2.74	Feb. 6.34	Feb. 9.95	30.86
16.43	20.04	23.65	Feb. 13.56
March 2.13	March 5.74	March 9.35	27.26
15.83	19.44	23.05	March 12.96
29.53	April 2.14	April 5.75	26.66
April 12.23	15.84	19.45	April 9.36
25.92	29.53	May 3.14	23.05
May 9.62	May 13.23	16.84	May 6.75
23.32	26.93	30.54	20.45
June 6.02	June 9.63	June 13.24	June 3.15
19.72	23.33	26.94	16.85
July 3.42	July 7.02	July 10.63	30.54
17.11	20.72	24.33	July 14.24
30.81	Aug. 3.42	Aug. 7.03	27.94
Aug. 13.51	17.12	20.73	Aug. 10.64
27.21	30.82	Sept. 3.43	24.34
Sept. 9.91	Sept. 13.52	17.12	Sept. 7.04
23.60	27.21	30.83	20.73
Oct. 7.30	Oct. 10.91	Oct. 14.92	Oct. 4.43
21.00	24.61	28.22	18.13
Nov. 3.70	Nov. 7.31	Nov. 10.92	31.83
17.40	21.01	24.62	Nov. 14.53
Dec. 1.10	Dec. 4.70	Dec. 8.31	28.22
14.79	18.40	22.01	Dec. 11.92
28.49			25.62

Note.—Add 1 day to the tabular date in Jan. and Feb., 1864.

Argument in Days.	5 Ursæ Minoris B.	6 Ursæ Minoris B.	43 Cephei H.	Polaris.	214 Camelopardali B.	20 Ursæ Minoris B.	Groombridge 527.	323 Cephei B.	57 Ursæ Minoris B.	Groombridge 750.	62 Ursæ B.	ε Ursæ Minoris.	64 Camelopardali B.	δ Ursæ Minoris.	Argument in Days.
0.0	+0.12 ^{s.}	+0.21 ^{s.}	-0.07 ^{s.}	-0.22 ^{s.}	+0.07 ^{s.}	+0.08 ^{s.}	-0.03 ^{s.}	-0.05 ^{s.}	+0.09 ^{s.}	-0.03 ^{s.}	+0.03 ^{s.}	+0.01 ^{s.}	0.00 ^{s.}	-0.01 ^{s.}	0.0
0.5	+0.12	+0.21	-0.08	-0.24	+0.07	+0.08	-0.03	-0.06	+0.11	-0.04	+0.03	+0.02	-0.02	+0.01	0.5
1.0	+0.11	+0.20	-0.08	-0.25	+0.07	+0.09	-0.04	-0.08	+0.13	-0.06	+0.03	+0.02	-0.04	+0.03	1.0
1.5	+0.09	+0.17	-0.08	-0.24	+0.06	+0.08	-0.04	-0.09	+0.13	-0.07	+0.04	+0.03	-0.05	+0.04	1.5
2.0	+0.07	+0.14	-0.07	-0.22	+0.05	+0.08	-0.04	-0.09	+0.13	-0.07	+0.04	+0.03	-0.06	+0.06	2.0
2.5	+0.05	+0.10	-0.06	-0.19	+0.04	+0.06	-0.04	-0.09	+0.12	-0.08	+0.04	+0.03	-0.07	+0.07	2.5
3.0	+0.02	+0.05	-0.05	-0.15	+0.03	+0.05	-0.04	-0.09	+0.11	-0.08	+0.03	+0.03	-0.07	+0.08	3.0
3.5	0.00	0.00	-0.04	-0.10	+0.01	+0.03	-0.04	-0.08	+0.09	-0.07	+0.03	+0.03	-0.08	+0.08	3.5
4.0	-0.03	-0.05	-0.02	-0.05	0.00	+0.01	-0.03	-0.07	+0.07	-0.06	+0.02	+0.02	-0.07	+0.08	4.0
4.5	-0.06	-0.09	0.00	+0.06	-0.02	-0.01	-0.02	-0.05	+0.04	-0.05	+0.01	+0.02	-0.06	+0.07	4.5
5.0	-0.08	-0.13	+0.02	+0.06	-0.04	-0.03	-0.01	-0.03	+0.01	-0.03	0.00	+0.01	-0.05	+0.06	5.0
5.5	-0.10	-0.17	+0.03	+0.11	-0.05	-0.04	0.00	-0.01	-0.02	-0.02	0.00	+0.01	-0.04	+0.05	5.5
6.0	-0.11	-0.19	+0.05	+0.16	-0.06	-0.06	+0.01	+0.01	-0.05	0.00	-0.01	0.00	-0.03	+0.04	6.0
6.5	-0.12	-0.21	+0.06	+0.20	-0.07	-0.07	+0.02	+0.03	-0.08	+0.02	-0.02	-0.01	-0.01	+0.02	6.5
7.0	-0.12	-0.21	+0.07	+0.23	-0.07	-0.08	+0.03	+0.05	-0.10	+0.03	-0.03	-0.01	+0.01	0.00	7.0
7.5	-0.11	-0.21	+0.08	+0.24	-0.07	-0.09	+0.03	+0.07	-0.12	+0.05	-0.03	-0.02	+0.03	-0.02	7.5
8.0	-0.10	-0.19	+0.08	+0.25	-0.07	-0.09	+0.04	+0.08	-0.13	+0.06	-0.04	-0.02	+0.04	-0.03	8.0
8.5	-0.09	-0.16	+0.08	+0.24	-0.06	-0.08	+0.04	+0.09	-0.13	+0.07	-0.04	-0.03	+0.06	-0.05	8.5
9.0	-0.07	-0.12	+0.07	+0.21	-0.05	-0.07	+0.04	+0.09	-0.13	+0.08	-0.04	-0.03	+0.07	-0.06	9.0
9.5	-0.04	-0.08	+0.06	+0.18	-0.04	-0.06	+0.04	+0.09	-0.12	+0.08	-0.03	-0.03	+0.07	-0.07	9.5
10.0	-0.01	-0.04	+0.05	+0.14	-0.02	-0.04	+0.04	+0.09	-0.11	+0.07	-0.03	-0.03	+0.08	-0.08	10.0
10.5	+0.01	+0.01	+0.03	+0.09	-0.01	-0.03	+0.03	+0.08	-0.08	+0.07	-0.03	-0.02	+0.07	-0.08	10.5
11.0	+0.04	+0.06	+0.01	+0.03	+0.01	-0.01	+0.03	+0.06	-0.06	+0.06	-0.02	-0.02	+0.07	-0.08	11.0
11.5	+0.06	+0.11	-0.01	-0.02	+0.03	+0.01	+0.02	+0.04	-0.03	+0.05	-0.01	-0.02	+0.06	-0.07	11.5
12.0	+0.08	+0.14	-0.02	-0.08	+0.04	+0.03	+0.01	+0.02	0.00	+0.03	0.00	-0.01	+0.05	-0.06	12.0
12.5	+0.10	+0.18	-0.04	-0.13	+0.05	+0.05	0.00	0.00	+0.03	+0.01	+0.01	0.00	+0.04	-0.05	12.5
13.0	+0.11	+0.20	-0.05	-0.17	+0.06	+0.06	-0.01	-0.02	+0.06	0.00	+0.02	0.00	+0.02	-0.03	13.0
13.5	+0.12	+0.21	-0.07	-0.21	+0.07	+0.08	-0.02	-0.04	+0.08	-0.02	+0.02	+0.01	0.00	-0.01	13.5
14.0	+0.12	+0.21	-0.07	-0.23	+0.07	+0.08	-0.03	-0.06	+0.11	-0.04	+0.03	+0.01	-0.01	0.00	14.0
14.5	+0.11	+0.20	-0.08	-0.25	+0.07	+0.09	-0.04	-0.07	+0.12	-0.05	+0.03	+0.02	-0.03	+0.02	14.5
15.0	+0.10	+0.18	-0.08	-0.24	+0.06	+0.08	-0.04	-0.09	+0.13	-0.06	+0.04	+0.02	-0.05	+0.04	15.0

Argument in Days.	51 Cephei H.	25 Camelopardali H.	4 Ursæ Minoris B.	156 Camelopardali B.	λ Ursæ Minoris B.	74 Draconis.	1 Draconis H.	119 Cephei B.	30 Camelopardali H.	34 Cephei H.	202 Camelopardali B.	39 Cephei H.	309 Cephei B.	Argument in Days.
0.0	+0.03 ^{s.}	+0.02 ^{s.}	+0.15 ^{s.}	+0.03 ^{s.}	-0.15 ^{s.}	-0.02 ^{s.}	+0.03 ^{s.}	-0.04 ^{s.}	+0.05 ^{s.}	-0.04 ^{s.}	+0.04 ^{s.}	-0.10 ^{s.}	-0.08 ^{s.}	0.0
0.5	0.00	+0.01	+0.08	+0.02	-0.09	-0.02	+0.03	-0.04	+0.04	-0.04	+0.04	-0.09	-0.08	0.5
1.0	-0.02	-0.01	0.00	.00	-0.03	-0.01	+0.02	-0.03	+0.03	-0.04	+0.03	-0.09	-0.08	1.0
1.5	-0.05	-0.02	-0.07	-0.01	+0.04	-0.01	0.00	-0.02	+0.02	-0.03	+0.02	-0.07	-0.07	1.5
2.0	-0.08	-0.03	-0.14	-0.03	+0.10	0.00	-0.01	-0.01	0.00	-0.02	+0.01	-0.06	-0.06	2.0
2.5	-0.10	-0.04	-0.21	-0.04	+0.15	0.00	-0.02	0.00	-0.01	-0.02	0.00	-0.04	-0.04	2.5
3.0	-0.11	-0.05	-0.26	-0.05	+0.21	+0.01	-0.03	+0.01	-0.02	-0.01	-0.01	-0.02	-0.02	3.0
3.5	-0.12	-0.05	-0.28	-0.06	+0.25	+0.01	-0.04	+0.02	-0.03	0.00	-0.02	+0.01	0.00	3.5
4.0	-0.12	-0.05	-0.32	-0.07	+0.27	+0.02	-0.04	+0.03	-0.04	+0.01	-0.03	+0.03	+0.02	4.0
4.5	-0.12	-0.05	-0.33	-0.07	+0.28	+0.02	-0.05	+0.04	-0.05	+0.02	-0.03	+0.05	+0.03	4.5
5.0	-0.11	-0.05	-0.32	-0.07	+0.28	+0.02	-0.05	+0.04	-0.05	+0.03	-0.04	+0.07	+0.05	5.0
5.5	-0.10	-0.04	-0.29	-0.06	+0.26	+0.03	-0.05	+0.04	-0.06	+0.04	-0.04	+0.08	+0.06	5.5
6.0	-0.08	-0.04	-0.25	-0.05	+0.23	+0.03	-0.04	+0.05	-0.05	+0.04	-0.04	+0.09	+0.08	6.0
6.5	-0.05	-0.03	-0.19	-0.04	+0.18	+0.02	-0.04	+0.04	-0.05	+0.04	-0.04	+0.10	+0.08	6.5
7.0	-0.02	-0.01	-0.13	-0.03	+0.13	+0.02	-0.03	+0.04	-0.04	+0.04	-0.04	+0.10	+0.08	7.0
7.5	-0.01	-0.00	-0.05	-0.01	+0.07	+0.02	-0.02	+0.03	-0.04	+0.04	-0.03	+0.09	+0.08	7.5
8.0	+0.03	+0.01	+0.02	0.00	+0.01	+0.01	-0.01	+0.03	-0.03	+0.04	-0.03	+0.08	+0.08	8.0
8.5	+0.06	+0.02	+0.09	+0.02	-0.06	+0.01	0.00	+0.02	-0.01	+0.03	-0.02	+0.07	+0.07	8.5
9.0	+0.08	+0.03	+0.16	+0.03	-0.12	0.00	+0.01	+0.01	-0.00	+0.02	-0.01	+0.05	+0.05	9.0
9.5	+0.10	+0.04	+0.22	+0.04	-0.17	0.00	+0.02	0.00	+0.01	+0.01	0.00	+0.03	+0.04	9.5
10.0	+0.12	+0.05	+0.27	+0.06	-0.22	-0.01	+0.03	-0.01	+0.02	0.00	+0.01	+0.01	+0.02	10.0
10.5	+0.12	+0.05	+0.31	+0.06	-0.25	-0.02	+0.04	-0.02	+0.03	-0.01	+0.02	-0.01	0.00	10.5
11.0	+0.12	+0.05	+0.32	+0.07	-0.28	-0.02	+0.04	-0.03	+0.04	-0.02	+0.03	-0.04	-0.02	11.0
11.5	+0.12	+0.05	+0.32	+0.07	-0.28	-0.02	+0.05	-0.04	+0.05	-0.02	+0.04	-0.06	-0.04	11.5
12.0	+0.11	+0.05	+0.31	+0.06	-0.27	-0.03	+0.05	-0.04	+0.05	-0.03	+0.04	-0.07	-0.06	12.0
12.5	+0.09	+0.04	+0.28	+0.06	-0.25	-0.03	+0.05	-0.05	+0.06	-0.04	+0.04	-0.09	-0.07	12.5
13.0	+0.07	+0.03	+0.23	+0.05	-0.22	-0.03	+0.04	-0.05	+0.05	-0.04	+0.04	-0.09	-0.08	13.0
13.5	+0.04	+0.02	+0.17	+0.04	-0.17	-0.02	+0.04	-0.04	+0.05	-0.04	+0.04	-0.10	-0.08	13.5
14.0	+0.02	+0.01	+0.10	+0.02	-0.11	-0.02	+0.03	-0.04	+0.04	-0.04	+0.04	-0.10	-0.08	14.0
14.5	-0.01	0.00	+0.03	+0.01	-0.05	-0.02	+0.02	-0.03	+0.03	-0.04	+0.03	-0.09	-0.08	14.5
15.0	-0.04	-0.01	-0.04	-0.01	+0.01	-0.01	+0.01	-0.02	+0.02	-0.03	+0.03	-0.08	-0.07	15.0

	5 Ursæ Min. B.				6 Ursæ Min. B.				43 Cephei H.				214 Camelop. B.			
	<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>s.</i>	<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>s.</i>	<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>s.</i>	<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>s.</i>
1862.																
Jan. 0	12	12	48.80	—1.16	12	14	21.76	—2.11	0	50	32.44	+0.71	13	20	20.12	—0.68
April 10			47.64	—1.15			19.65	—2.10			33.15	+0.70			19.44	—0.66
July 19			46.49	—1.16			17.55	—2.08			33.85	+0.68			18.78	—0.66
Oct. 27			45.33	—1.14			15.47	—2.05			34.53	+0.64			18.12	—0.63
Dec. 66			44.19				13.42				35.17				17.49	
1863.																
Jan. 0	12	12	46.42	—1.12	12	14	13.97	—2.01	0	50	41.83	+0.62	13	20	14.90	—0.62
April 10			45.30	—1.09			11.96	—1.95			42.45	+0.58			14.28	—0.60
July 19			44.21	—1.06			10.01	—1.86			43.03	+0.54			13.68	—0.56
Oct. 27			43.15	—1.00			8.15	—1.76			43.57	+0.48			13.12	—0.52
Dec. 66			42.15				6.39				44.05				12.60	
1864.																
Jan. 0	12	12	44.33	—0.97	12	14	6.84	—1.69	0	50	50.78	+0.45	13	20	9.98	—0.49
April 10			43.36	—0.90			5.15	—1.56			51.23	+0.39			9.49	—0.45
July 19			42.46	—0.82			3.59	—1.43			51.62	+0.33			9.04	—0.40
Oct. 27			41.64	—0.75			2.16	—1.28			51.95	+0.27			8.64	—0.34
Dec. 66			40.89				0.88				52.22				8.30	
1865.																
Jan. 0	12	12	42.98	—0.69	12	14	1.19	—1.17	0	50	59.03	+0.23	13	20	5.63	—0.31
April 10			42.29	—0.60			0.02	—1.00			59.26	+0.15			5.32	—0.25
July 19			41.69	—0.51	13		59.02	—0.81			59.41	+0.08			5.07	—0.19
Oct. 27			41.18	—0.40			58.21	—0.64			59.49	+0.02			4.88	—0.12
Dec. 66			40.78				57.57				59.51				4.76	
1862.	°	'	"	"	°	'	"	"	°	'	"	"	°	'	"	"
Jan. 0	87	12	4.00	+0.03	88	27	47.37	+0.03	85	30	59.85	—0.16	85	28	26.27	+0.26
April 10			4.03	+0.07			47.40	+0.08			59.69	—0.20			26.53	+0.31
July 19			4.10	+0.13			47.48	+0.13			59.49	—0.27			26.84	+0.37
Oct. 27			4.23	+0.19			47.61	+0.20			59.22	—0.33			27.21	+0.42
Dec. 66			4.42				47.81				58.89				27.63	
1863.																
Jan. 0	87	11	44.32	+0.23	88	27	27.65	+0.23	85	31	18.57	—0.35	85	28	8.65	+0.45
April 10			44.55	+0.28			27.88	+0.29			18.22	—0.41			9.10	+0.50
July 19			44.83	+0.34			28.17	+0.33			17.81	—0.45			9.60	+0.53
Oct. 27			45.17	+0.38			28.50	+0.39			17.36	—0.50			10.13	+0.57
Dec. 66			45.55				28.89				16.86				10.70	
1864.																
Jan. 0	87	11	25.38	+0.42	88	27	8.67	+0.42	85	31	36.59	—0.52	85	27	51.67	+0.59
April 10			25.80	+0.47			9.09	+0.46			36.07	—0.56			52.26	+0.62
July 19			26.27	+0.50			9.55	+0.51			35.51	—0.59			52.88	+0.64
Oct. 27			26.77	+0.54			10.06	+0.54			34.92	—0.61			53.52	+0.66
Dec. 66			27.31				10.60				34.31				54.18	
1865.																
Jan. 0	87	11	7.09	+0.56	88	26	50.32	+0.56	85	31	54.08	—0.63	85	27	35.12	+0.67
April 10			7.65	+0.59			50.88	+0.59			53.45	—0.64			35.79	+0.67
July 19			8.24	+0.61			51.47	+0.62			52.81	—0.66			36.46	+0.67
Oct. 27			8.85	+0.63			52.09	+0.63			52.15	—0.66			37.13	+0.67
Dec. 66			9.48				52.72				51.49				37.80	

	20 Ursæ Min. B.				Groombridge 527.				323 Cephei B.				57 Ursæ Min. B.			
	<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>s.</i>	<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>s.</i>	<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>s.</i>	<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>s.</i>
1862.																
Jan. 0	14	4	9.30	—0.78	2 28	11.94	+0.29		3 21	44.88	+0.57		15 23	8.15	—0.94	
April 10			8.52	—0.76		12.23	+0.27			45.45	+0.52			7.21	—0.88	
July 19			7.76	—0.73		12.50	+0.25			45.97	+0.47			6.33	—0.80	
Oct. 27			7.03	—0.70		12.75	+0.22			46.44	+0.40			5.53	—0.72	
Dec. 66			6.33			12.97				46.84				4.81		
1863.																
Jan. 0	14	3	58.60	—0.67	2 28	21.00	+0.19		3 22	5.49	+0.35		15 22	41.73	—0.66	
April 10			57.93	—0.63		21.19	+0.17			5.84	+0.29			41.07	—0.57	
July 19			57.30	—0.57		21.36	+0.13			6.13	+0.22			40.50	—0.47	
Oct. 27			56.73	—0.52		21.49	+0.11			6.35	+0.14			40.03	—0.38	
Dec. 66			56.21			21.60				6.49				39.65		
1864.																
Jan. 0	14	3	48.43	—0.47	2 28	29.67	+0.08		3 22	25.26	+0.09		15 22	16.53	—0.31	
April 10			47.96	—0.41		29.75	+0.04			25.35	+0.02			16.22	—0.19	
July 19			47.55	—0.35		29.79	0.00			25.37	—0.07			16.03	—0.09	
Oct. 27			47.20	—0.28		29.79	—0.03			25.30	—0.13			15.94	+0.03	
Dec. 66			46.92			29.76				25.17				15.97		
1865.																
Jan. 0	14	3	39.10	—0.23	2 28	37.89	—0.05		3 22	44.06	—0.19		15 21	52.79	+0.10	
April 10			38.87	—0.15		37.84	—0.10			43.87	—0.26			52.89	+0.21	
July 19			38.72	—0.08		37.74	—0.12			43.61	—0.33			53.10	+0.31	
Oct. 27			38.64	0.00		37.62	—0.16			43.28	—0.41			53.41	+0.43	
Dec. 66			38.64			37.46				42.87				53.84		
1862.	<i>°</i>	<i>'</i>	<i>"</i>	<i>"</i>	<i>°</i>	<i>'</i>	<i>"</i>	<i>"</i>	<i>°</i>	<i>'</i>	<i>"</i>	<i>"</i>	<i>°</i>	<i>'</i>	<i>"</i>	<i>"</i>
Jan. 0	86	25	0.04	+0.41	80	51	35.01	—0.49	86	12	16.02	—0.64	87	45	17.93	+0.64
April 10			0.45	+0.46			34.52	—0.53			15.38	—0.67			18.57	+0.67
July 19			0.91	+0.51			33.99	—0.58			14.71	—0.71			19.24	+0.71
Oct. 27			1.42	+0.55			33.41	—0.62			14.00	—0.74			19.95	+0.73
Dec. 66			1.97				32.79				13.26				20.68	
1863.																
Jan. 0	86	24	44.65	+0.57	80	51	48.93	—0.64	86	12	25.23	—0.75	87	45	7.79	+0.75
Apr. 10			45.22	+0.62			48.29	—0.67			24.48	—0.76			8.54	+0.76
July 19			45.84	+0.64			47.62	—0.70			23.72	—0.78			9.30	+0.77
Oct. 27			46.48	+0.66			46.92	—0.71			22.94	—0.78			10.07	+0.77
Dec. 66			47.14				46.21				22.16				10.84	
1864.																
Jan. 0	86	24	29.78	+0.68	80	52	2.37	—0.72	86	12	35.12	—0.78	87	44	57.91	+0.78
April 10			30.46	+0.69			1.65	—0.73			34.34	—0.77			58.69	+0.77
July 19			31.15	+0.71			0.92	—0.73			33.57	—0.75			59.46	+0.75
Oct. 27			31.86	+0.70			0.19	—0.73			32.82	—0.74	45	0.21	+0.72	
Dec. 66			32.56		51	59.46					32.08			0.93		
1865.																
Jan. 0	86	24	15.18	+0.70	80	52	15.61	—0.71	86	12	45.00	—0.71	87	44	48.00	+0.71
April 10			15.88	+0.70			14.90	—0.71			44.29	—0.68			48.71	+0.68
July 19			16.58	+0.69			14.19	—0.68			43.61	—0.65			49.39	+0.64
Oct. 27			17.27	+0.66			13.51	—0.65			42.96	—0.59			50.03	+0.59
Dec. 66			17.93				12.86				42.37				50.62	

	Gr. 750.				62 Ursæ Min. B.				ε Ursæ Minoris.				64 Camelop. B.			
	<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>h.</i>	<i>m.</i>	<i>s.</i>	
1862.																
Jan. 0	3	54	26.02	+0.38	15	57	58.33	-0.26	17	0	12.02	-0.12	5	18	14.65	+0.14
April 10			26.40	+0.33			58.07	-0.24			11.90	-0.09			14.79	+0.10
July 19			26.73	+0.27			57.83	-0.22			11.81	-0.08			14.89	+0.04
Oct. 27			27.00	+0.23			57.61	-0.19			11.73	-0.06			14.93	-0.01
Dec. 66			27.23				57.42				11.67				14.92	
1863.																
Jan. 0	3	54	43.79	+0.19	15	57	50.68	-0.18	17	0	5.27	-0.05	5	18	33.40	-0.05
April 10			43.98	+0.13			50.50	-0.15			5.22	-0.02			33.35	-0.11
July 19			44.11	+0.07			50.35	-0.12			5.20	-0.01			33.24	-0.16
Oct. 27			44.18	+0.01			50.23	-0.08			5.19	+0.02			33.08	-0.22
Dec. 66			44.19				50.15				5.21				32.86	
1864.																
Jan. 0	3	55	0.84	-0.03	15	57	43.36	-0.07	16	59	58.79	+0.03	5	18	51.43	-0.26
April 10			0.81	-0.09			43.29	-0.04			58.82	+0.06			51.17	-0.30
July 19			0.72	-0.14			43.25	-0.02			58.88	+0.07			50.87	-0.35
Oct. 27			0.58	-0.21			43.23	+0.02			58.95	+0.10			50.52	-0.40
*Dec. 66			0.37				43.25				59.05				50.12	
1865.																
Jan. 0	3	55	17.11	-0.24	15	57	36.45	+0.04	16	59	52.60	+0.11	5	19	8.75	-0.43
April 10			16.87	-0.30			36.49	+0.07			52.71	+0.13			8.32	-0.46
July 19			16.57	-0.36			36.56	+0.10			52.84	+0.14			7.86	-0.51
Oct. 27			16.21	-0.40			36.66	+0.13			52.98	+0.17			7.35	-0.53
Dec. 66			15.81				36.79				53.15				6.82	
1862	°	'	"	"	°	'	"	"	°	'	"	"	°	'	"	"
Jan. 0	85	11	10.35	-0.71	83	21	26.45	+0.71	82	15	28.19	+0.81	85	6	52.66	-0.83
April 10			9.64	-0.74			27.16	+0.75			29.00	+0.83			51.83	-0.84
July 19			8.90	-0.77			27.91	+0.77			29.83	+0.84			50.99	-0.85
Oct. 27			8.13	-0.78			28.68	+0.79			30.67	+0.84			50.14	-0.85
Dec. 66.			7.35				29.47				31.51				49.29	
1863.																
Jan. 0	85	11	18.10	-0.80	83	21	19.02	+0.80	82	15	26.05	+0.84	85	6	53.22	-0.84
April 10			17.30	-0.80			19.82	+0.80			26.89	+0.82			52.38	-0.83
July 19			16.50	-0.81			20.62	+0.81			27.71	+0.81			51.55	-0.80
Oct. 27			15.69	-0.80			21.43	+0.79			28.52	+0.79			50.75	-0.78
Dec. 66			14.89				22.22				29.31				49.97	
1864.																
Jan. 0	85	11	25.62	-0.79	83	21	11.77	+0.79	82	15	23.86	+0.77	85	6	53.84	-0.75
April 10			24.83	-0.77			12.56	+0.77			24.63	+0.73			53.09	-0.71
July 19			24.06	-0.75			13.33	+0.74			25.36	+0.69			52.38	-0.66
Oct. 27			23.31	-0.72			14.07	+0.71			26.05	+0.64			51.72	-0.61
Dec. 66			22.59				14.78				26.69				51.11	
1865.																
Jan. 0	85	11	33.27	-0.69	83	21	4.35	+0.69	82	15	21.29	+0.60	85	6	54.89	-0.57
April 10			32.58	-0.65			5.04	+0.65			21.89	+0.55			54.32	-0.51
July 19			31.93	-0.60			5.69	+0.59			22.44	+0.48			53.81	-0.44
Oct. 27			31.33	-0.55			6.28	+0.54			22.92	+0.42			53.37	-0.38
Dec. 66			30.78				6.82				23.34				52.99	

	51 Cephei H.				25 Camelop. H.				4 Ursæ Min. B.				156 Camelop. B.			
	<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>h.</i>	<i>m.</i>	<i>s.</i>	
1862.																
Jan. 0	6	34	51.09	—0.13	7	1	54.49	—0.10	7	13	13.56	—0.94	7	43	29.81	—0.23
April 10			50.96	—0.22			54.39	—0.13			12.62	—1.17			29.58	—0.28
July 19			50.74	—0.31			54.26	—0.17			11.45	—1.41			29.30	—0.32
Oct. 27			50.43	—0.40			54.09	—0.21			10.04	—1.61			28.98	—0.36
Dec. 66			50.03				53.88				8.43				28.62	
1863.																
Jan. 0	6	35	20.69	—0.45	7	2	7.05	—0.23	7	14	26.10	—1.75	7	43	44.19	—0.39
April 10			20.24	—0.54			6.82	—0.27			24.35	—1.94			43.80	—0.42
July 19			19.70	—0.62			6.55	—0.30			22.41	—2.11			43.38	—0.46
Oct. 27			19.08	—0.68			6.25	—0.33			20.30	—2.27			42.92	—0.48
Dec. 66			18.40				5.92				18.03				42.44	
1864.																
Jan. 0	6	35	49.14	—0.74	7	2	19.13	—0.35	7	15	35.64	—2.36	7	43	58.04	—0.50
April 10			48.40	—0.79			18.78	—0.37			33.28	—2.49			57.54	—0.52
July 19			47.61	—0.85			18.41	—0.39			30.79	—2.58			57.02	—0.54
Oct. 27			46.76	—0.89			18.02	—0.40			28.21	—2.66			56.48	—0.55
Dec. 66			45.87				17.62				25.55				55.93	
1865.																
Jan. 0	6	36	16.65	—0.92	7	2	30.84	—0.42	7	16	43.01	—2.70	7	44	11.53	—0.55
April 10			15.73	—0.96			30.42	—0.43			40.31	—2.73			10.98	—0.57
July 19			14.77	—0.99			29.99	—0.43			37.58	—2.74			10.41	—0.56
Oct. 27			13.78	—1.01			29.56	—0.44			34.84	—2.71			9.85	—0.55
Dec. 66			12.77				29.12				32.13				9.30	
1862.	<i>°</i>	<i>'</i>	<i>"</i>	<i>"</i>	<i>°</i>	<i>'</i>	<i>"</i>	<i>"</i>	<i>°</i>	<i>'</i>	<i>"</i>	<i>"</i>	<i>°</i>	<i>'</i>	<i>"</i>	<i>"</i>
Jan. 0	87	14	48.17	—0.85	82	39	53.04	—0.83	89	1	6.96	—0.82	84	26	35.85	—0.78
April 10			47.32	—0.84			52.21	—0.81			6.14	—0.81			35.07	—0.75
July 19			46.48	—0.82			51.40	—0.79			5.33	—0.79			34.32	—0.73
Oct. 27			45.66	—0.81			50.61	—0.77			4.54	—0.75			33.59	—0.68
Dec. 66			44.85				49.84				3.79				32.91	
1863.																
Jan. 0	87	14	42.05	—0.78	82	39	44.71	—0.74	89	0	57.74	—0.72	84	26	24.39	—0.66
Apr. 10			41.27	—0.75			43.97	—0.70			57.02	—0.68			23.73	—0.61
July 19			40.52	—0.71			43.27	—0.66			56.34	—0.64			23.12	—0.56
Oct. 27			39.81	—0.66			42.61	—0.60			55.70	—0.58			22.56	—0.50
Dec. 66			39.15				42.01				55.12				22.06	
1864.																
Jan. 0	87	14	36.25	—0.63	82	39	36.79	—0.55	89	0	48.91	—0.54	84	26	13.47	—0.46
April 10			35.62	—0.57			36.24	—0.51			48.37	—0.48			13.01	—0.39
July 19			35.05	—0.51			35.73	—0.44			47.89	—0.40			12.62	—0.33
Oct. 27			34.54	—0.44			35.29	—0.37			47.49	—0.34			12.29	—0.25
Dec. 66			34.10				34.92				47.15				12.04	
1865.																
Jan. 0	87	14	31.09	—0.40	82	39	29.62	—0.32	89	0	40.75	—0.29	84	26	3.34	—0.20
April 10			30.69	—0.32			29.30	—0.25			40.46	—0.20			3.14	—0.14
July 19			30.37	—0.25			29.05	—0.17			40.26	—0.13			3.00	—0.03
Oct. 27			30.12	—0.16			28.88	—0.09			40.13	—0.05			2.97	+0.03
Dec. 66			29.96				28.79				40.08				3.00	

	A Ursæ Minoris.				74 Draconis.				1 Draconis, H.				119 Cephei.			
	<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>h.</i>	<i>m.</i>	<i>s.</i>	
1862.																
Jan. 0	20	1	39.86	+1.38	20	37	15.66	+0.22	9	17	10.46	-0.29	21	24	27.13	+0.39
April 10			41.24	+1.54			15.88	+0.22			10.17	-0.32			27.52	+0.41
July 19			42.78	+1.68			16.10	+0.22			9.85	-0.34			27.93	+0.41
Oct. 27			44.46	+1.83			16.32	+0.24			9.51	-0.36			28.34	+0.42
Dec. 66			46.29				16.56				9.15				28.76	
1863.																
Jan. 0	20	0	48.73	+1.92	20	37	13.31	+0.24	9	17	18.50	-0.38	21	24	24.13	+0.42
April 10			50.65	+2.03			13.55	+0.23			18.12	-0.39			24.55	+0.43
July 19			52.68	+2.13			13.78	+0.24			17.73	-0.41			24.98	+0.42
Oct. 27			54.81	+2.21			14.02	+0.23			17.32	-0.42			25.40	+0.42
Dec. 66			57.02				14.25				16.90				25.82	
1864.																
Jan. 0	19	59	59.05	+2.25	20	37	11.01	+0.23	9	17	26.26	-0.42	21	24	21.18	+0.41
April 10	20	0	1.30	+2.31			11.24	+0.22			25.84	-0.42			21.59	+0.39
July 19			3.61	+2.34			11.46	+0.22			25.42	-0.44			21.98	+0.38
Oct. 27			5.95	+2.34			11.68	+0.21			24.98	-0.41			22.36	+0.36
Dec. 66			8.29				11.89				24.57				22.72	
1865.																
Jan. 0	19	59	9.98	+2.34	20	37	8.65	+0.20	9	17	33.92	-0.42	21	24	18.10	+0.35
April 10			12.32	+2.32			8.85	+0.19			33.50	-0.41			18.45	+0.33
July 19			14.64	+2.28			9.04	+0.18			33.09	-0.39			18.78	+0.29
Oct. 27			16.92	+2.21			9.22	+0.16			32.70	-0.38			19.07	+0.26
Dec. 66			19.13				9.38				32.32				19.33	
1862.	<i>°</i>	<i>'</i>	<i>"</i>	<i>"</i>	<i>°</i>	<i>'</i>	<i>"</i>	<i>"</i>	<i>°</i>	<i>'</i>	<i>"</i>	<i>"</i>	<i>°</i>	<i>'</i>	<i>"</i>	<i>"</i>
Jan. 0	88	53	48.22	+0.74	80	36	25.02	+0.68	81	55	47.31	-0.58	83	40	26.07	+0.55
April 10			48.96	+0.71			25.70	+0.64			46.73	-0.54			26.62	+0.51
July 19			49.67	+0.68			26.34	+0.60			46.19	-0.48			27.13	+0.47
Oct. 27			50.35	+0.64			26.94	+0.55			45.71	-0.44			27.60	+0.41
Dec. 66.			50.99				27.49				45.27				28.01	
1863.																
Jan. 0	88	54	0.93	+0.61	80	36	40.23	+0.51	81	55	30.21	-0.40	83	40	43.47	+0.37
April 10			1.54	+0.57			40.74	+0.47			29.81	-0.33			43.84	+0.31
July 19			2.11	+0.51			41.21	+0.40			29.48	-0.28			44.15	+0.25
Oct. 27			2.62	+0.45			41.61	+0.34			29.20	-0.21			44.40	+0.19
Dec. 66			3.07				41.95				28.99				44.59	
1864.																
Jan. 0	88	54	13.00	+0.41	80	36	54.76	+0.29	81	55	13.85	-0.17	83	41	0.12	+0.14
April 10			13.41	+0.34			55.05	+0.23			13.68	-0.09			0.26	+0.07
July 19			13.75	+0.28			55.28	+0.16			13.59	-0.03			0.33	+0.01
Oct. 27			14.03	+0.20			55.44	+0.08			13.56	+0.04			0.34	-0.07
Dec. 66			14.23				55.52				13.60				0.27	
1865.																
Jan. 0	88	54	24.19	+0.15	80	37	8.41	+0.04	81	54	58.36	+0.09	83	41	15.89	-0.11
April 10			24.34	+0.08			8.45	-0.04			58.45	+0.16			15.78	-0.18
July 19			24.42	+0.01			8.41	-0.11			58.61	+0.23			15.60	-0.25
Oct. 27			24.43	-0.07			8.30	-0.18			58.84	+0.30			15.35	-0.31
Dec. 66			24.36				8.12				59.14				15.04	

	30 Camelop. H.				34 Cephei H.				202 Camelop. B.				39 Cephei H.			
	<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>h.</i>	<i>m.</i>	<i>s.</i>	
1862.																
Jan. 0	10	13	58.28	—0.40	22	47	54.53	+0.40	11	22	0.24	—0.39	23	27	49.00	+0.92
April 10			57.88	—0.44			54.93	+0.41		21	59.85	—0.39			49.92	+0.94
July 19			57.44	—0.46			55.34	+0.40			59.46	—0.41			50.86	+0.93
Oct. 27			56.98	—0.48			55.74	+0.39			59.05	—0.42			51.79	+0.91
Dec. 66			56.50				56.13				58.63				52.70	
1863.																
Jan. 0	10	14	4.74	—0.48	22	47	55.97	+0.39	11	22	3.35	—0.42	23	27	52.45	+0.90
April 10			4.26	—0.50			56.36	+0.38			2.93	—0.42			53.35	+0.87
July 19			3.76	—0.50			56.74	+0.36			2.51	—0.42			54.22	+0.83
Oct. 27			3.26	—0.51			57.10	+0.35			2.09	—0.41			55.05	+0.80
Dec. 66			2.75				57.45				1.68				55.85	
1864.																
Jan. 0	10	14	11.00	—0.51	22	47	57.30	+0.33	11	22	6.38	—0.40	23	27	55.64	+0.76
April 10			10.49	—0.49			57.63	+0.31			5.98	—0.40			56.40	+0.71
July 19			10.00	—0.49			57.94	+0.28			5.58	—0.37			57.11	+0.65
Oct. 27			9.51	—0.47			58.22	+0.25			5.21	—0.37			57.76	+0.58
Dec. 66			9.04				58.47				4.84				58.34	
1865.																
Jan. 0	10	14	17.26	—0.46	22	47	58.36	+0.23	11	22	9.53	—0.35	23	27	58.21	+0.53
April 10			16.80	—0.44			58.59	+0.20			9.18	—0.32			58.74	+0.46
July 19			16.36	—0.41			58.79	+0.16			8.86	—0.29			59.20	+0.38
Oct. 27			15.95	—0.38			58.95	+0.13			8.57	—0.27			59.58	+0.29
Dec. 66			15.57				59.08				8.30				59.87	
1862.	<i>°</i>	<i>'</i>	<i>"</i>	<i>"</i>	<i>°</i>	<i>'</i>	<i>"</i>	<i>"</i>	<i>°</i>	<i>'</i>	<i>"</i>	<i>"</i>	<i>°</i>	<i>'</i>	<i>"</i>	<i>"</i>
Jan. 0	83	15	21.30	—0.41	82	25	23.46	+0.29	81	53	4.34	—0.17	86	32	52.34	+0.15
April 10			20.89	—0.35			23.75	+0.24			4.17	—0.12			52.49	+0.10
July 19			20.54	—0.31			23.99	+0.18			4.05	—0.05			52.59	+0.03
Oct. 27			20.23	—0.24			24.17	+0.12			4.00	0.00			52.62	—0.03
Dec. 66			19.99				24.29				4.00				52.59	
1863.																
Jan. 0	83	15	2.13	—0.20	82	25	43.38	+0.08	81	52	44.24	+0.04	86	33	12.47	—0.06
April 10			1.93	—0.14			43.46	+0.02			44.28	+0.11			12.41	—0.13
July 19			1.79	—0.08			43.48	—0.05			44.39	+0.16			12.28	—0.18
Oct. 27			1.71	—0.01			43.43	—0.10			44.55	+0.22			12.10	—0.25
Dec. 66			1.70				43.33				44.77				11.85	
1864.																
Jan. 0	83	14	43.76	+0.03	82	26	2.50	—0.15	81	52	24.93	+0.26	86	33	31.81	—0.28
April 10			43.79	+0.09			2.35	—0.21			25.19	+0.32			31.53	—0.33
July 19			43.88	+0.16			2.14	—0.26			25.51	+0.36			31.20	—0.39
Oct. 27			44.04	+0.23			1.88	—0.32			25.87	+0.42			30.81	—0.43
Dec. 66			44.27				1.56				26.29				30.38	
1865.																
Jan. 0	83	14	26.24	+0.26	82	26	20.79	—0.35	81	52	6.39	+0.45	86	33	50.40	—0.46
April 10			26.50	+0.32			20.44	—0.40			6.84	+0.48			49.94	—0.51
July 19			26.82	+0.39			20.04	—0.47			7.32	+0.53			49.43	—0.54
Oct. 27			27.21	+0.43			19.57	—0.51			7.85	+0.57			48.89	—0.57
Dec. 66			27.64				19.06				8.42				48.32	

	309 Cephei B.					309 Cephei B.			
1862.		<i>h.</i>	<i>m.</i>	<i>s.</i>		1862.	<i>°</i>	<i>'</i>	<i>"</i>
Jan. 0	23	53	7.56	<i>s.</i>		Jan. 0	85	56	23.69
April 10			8.36	+ 0.80		Apr. 10			23.75
July 19			9.15	+ 0.79		July 19			23.74
Oct. 27			9.94	+ 0.79		Oct. 27			23.69
Dec. 66			10.70	+ 0.76		Dec. 66			23.57
1863.						1863.			
Jan. 0	23	53	12.99	+ 0.75		Jan. 0	85	56	43.64
April 10			13.74	+ 0.72		Apr. 10			43.48
July 19			14.46	+ 0.68		July 19			43.27
Oct. 27			15.14	+ 0.64		Oct. 27			43.00
Dec. 66			15.78			Dec. 66			42.67
1864.						1864.			
Jan. 0	23	53	18.11	+ 0.61		Jan. 0	85	57	2.81
Apr. 10			18.72	+ 0.55		Apr. 10			2.46
July 19			19.27	+ 0.50		July 19			2.05
Oct. 27			19.77	+ 0.43		Oct. 27			1.60
Dec. 66			20.20			Dec. 66			1.10
1865.						1865.			
Jan. 0	23	53	22.61	+ 0.39		Jan. 0	85	57	21.30
Apr. 10			23.00	+ 0.33		Apr. 10			20.78
July 19			23.33	+ 0.25		July 19			20.22
Oct. 27			23.58	+ 0.17		Oct. 27			19.64
Dec. 66			23.75			Dec. 66			19.03

1901				1902			
Jan	Feb	Mar	Apr	Jan	Feb	Mar	Apr
0	10	15	20	0	10	15	20
10	20	25	30	10	20	25	30
20	30	35	40	20	30	35	40
30	40	45	50	30	40	45	50
40	50	55	60	40	50	55	60
50	60	65	70	50	60	65	70
60	70	75	80	60	70	75	80
70	80	85	90	70	80	85	90
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Safford, Truman Henry

Right ascensions of 505 stars determined with the east transit circle at
the Observatory of Harvard College George Phillips Bond, A. M., Director. 1
862 - 1865

Cambridge 1878

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